# **EAST Search History**

| Ref<br># | Hits  | Search Query   | DBs                | Default<br>Operator | Plurals | Time Stamp       |
|----------|-------|--|--------------------|---------------------|---------|------------------|
| L1       | 27073 | oligosaccharide\$1 or<br>lacto-n-neotetraose or LNnT or<br>polylactosamine | US-PGPUB;<br>USPAT | ADJ                 | OFF     | 2008/01/02 13:27 |
| L2       | 5231  | 1 near8 (synthes\$8 or produc\$8)  | US-PGPUB;<br>USPAT | ADJ                 | OFF     | 2008/01/02 13:27 |
| L3       | 942   | 2 same (coli or bacter\$ or microb\$10 or microorganism\$)                 | US-PGPUB;<br>USPAT | ADJ                 | OFF     | 2008/01/02 13:28 |
| (14)     | 51    | 3 same vivo  | US-PGPUB;<br>USPAT | ADJ .               | OFF     | 2008/01/02 13:28 |
| L5       | 3641  | 1 near3 (synthes\$8 or produc\$8)  | US-PGPUB;<br>USPAT | ADJ                 | OFF     | 2008/01/02 13:37 |
| L6       | 230   | 5 near5 (coli or bacter\$ or microb\$10 or microorganism\$)                | US-PGPUB;<br>USPAT | ADJ                 | OFF     | 2008/01/02 13:37 |
| (L7)     | 62    | 6 and (glycosyltransferase\$1 or glycosyl transferase\$1)                  | US-PGPUB;<br>USPAT | ADJ                 | OFF     | 2008/01/02 13:38 |
| L8       | 4295  | lactose permease or lacY or lac adj<br>y                                   | US-PGPUB;<br>USPAT | ADJ                 | OFF     | 2008/01/02 13:51 |
| (19)     | 31    | 8 near5 (overexpress\$ or recombinant\$ or express\$)                      | US-PGPUB;<br>USPAT | ADJ                 | OFF     | 2008/01/02 13:52 |

7/7/00

FILE 'HOME' ENTERED AT 14:46:28 ON 02 JAN 2008

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 14:46:43 ON 02 JAN 2008 ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

#### 11 FILES IN THE FILE LIST

=> s oligosaccharide# or lacto n neotetraose or LNnT or polylactosamine FILE 'MEDLINE'

28000 OLIGOSACCHARIDE#

886 LACTO

881674 N

124 NEOTETRAOSE

120 LACTO N NEOTETRAOSE

(LACTO (W) N (W) NEOTETRAOSE)

20 LNNT

197 POLYLACTOSAMINE

L1 28120 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI

#### FILE 'SCISEARCH'

31544 OLIGOSACCHARIDE#

763 LACTO

1434237 N

128 NEOTETRAOSE

121 LACTO N NEOTETRAOSE

(LACTO (W) N (W) NEOTETRAOSE)

22 LNNT

204 POLYLACTOSAMINE

L2 31697 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI NE

## FILE 'LIFESCI'

7227 OLIGOSACCHARIDE#

218 "LACTO"

267792 "N"

54 "NEOTETRAOSE"

54 LACTO N NEOTETRAOSE

("LACTO"(W)"N"(W)"NEOTETRAOSE")

7 LNNT

45 POLYLACTOSAMINE

L3 7285 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI NE

### FILE 'BIOTECHDS'

3770 OLIGOSACCHARIDE#

69 LACTO

53640 N

14 NEOTETRAOSE

13 LACTO N NEOTETRAOSE

(LACTO (W) N (W) NEOTETRAOSE)

5 LNNT

7 POLYLACTOSAMINE

L4 3780 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI NE

FILE 'BIOSIS'

```
3461 LACTO
       1143462 N
           123 NEOTETRAOSE
           120 LACTO N NEOTETRAOSE
                  (LACTO (W) N (W) NEOTETRAOSE)
            21 LNNT
           209 POLYLACTOSAMINE
         27241 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
L5
FILE 'EMBASE'
         20424 OLIGOSACCHARIDE#
           788 "LACTO"
        867093 "N"
           119 "NEOTETRAOSE"
           112 LACTO N NEOTETRAOSE
                  ("LACTO" (W) "N" (W) "NEOTETRAOSE")
            18 LNNT
           172 POLYLACTOSAMINE
         20574 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
L6
FILE 'HCAPLUS'
         57154 OLIGOSACCHARIDE#
          1516 LACTO
       3122229 N
           212 NEOTETRAOSE
           206 LACTO N NEOTETRAOSE
                  (LACTO (W) N (W) NEOTETRAOSE)
            43 LNNT
           230 POLYLACTOSAMINE
L7
         57342 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
FILE 'NTIS'
           173 OLIGOSACCHARIDE#
             5 LACTO
         71193 N
             1 NEOTETRAOSE
             1 LACTO N NEOTETRAOSE
                  (LACTO (W) N (W) NEOTETRAOSE)
             0 LNNT
             1 POLYLACTOSAMINE
L8
           175 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
FILE 'ESBIOBASE'
          9707 OLIGOSACCHARIDE#
           282 LACTO
        399359 N
            78 NEOTETRAOSE
            75 LACTO N NEOTETRAOSE
                 (LACTO (W) N (W) NEOTETRAOSE)
            15 LNNT
           109 POLYLACTOSAMINE
1.9
          9814 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
FILE 'BIOTECHNO'
          9517 OLIGOSACCHARIDE#
           275 LACTO
        184936 N
            53 NEOTETRAOSE
            52 LACTO N NEOTETRAOSE
```

27041 OLIGOSACCHARIDE#

```
8 LNNT
            113 POLYLACTOSAMINE
           9603 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
 L10
 FILE 'WPIDS'
           8215 OLIGOSACCHARIDE#
            536 LACTO
         828130 N
             26 NEOTETRAOSE
             23 LACTO N NEOTETRAOSE
                  (LACTO (W) N (W) NEOTETRAOSE)
             16 LNNT
             22 POLYLACTOSAMINE
 L11
           8231 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
 TOTAL FOR ALL FILES
         203862 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI
 L12
 => s l12(5a)(synthes? or produc?)
 FILE 'MEDLINE'
         561448 SYNTHES?
        1447591 PRODUC?
 L13
           2176 L1 (5A) (SYNTHES? OR PRODUC?)
 FILE 'SCISEARCH'
       1015787 SYNTHES?
        2073859 PRODUC?
L14
           3826 L2 (5A) (SYNTHES? OR PRODUC?)
 FILE 'LIFESCI'
         158565 SYNTHES?
         584996 PRODUC?
 L15
            926 L3 (5A) (SYNTHES? OR PRODUC?)
 FILE 'BIOTECHDS'
         37774 SYNTHES?
         244863 PRODUC?
L16
           1337 L4 (5A) (SYNTHES? OR PRODUC?)
 FILE 'BIOSIS'
        738529 SYNTHES?
        2132937 PRODUC?
L17
          3404 L5 (5A) (SYNTHES? OR PRODUC?)
FILE 'EMBASE'
        676804 SYNTHES?
        1369397 PRODUC?
           2043 L6 (5A) (SYNTHES? OR PRODUC?)
L18
FILE 'HCAPLUS'
       1682639 SYNTHES?
        4656509 PRODUC?
        1052585 PRODN
        5162078 PRODUC?
                  (PRODUC? OR PRODN)
L19
           8292 L7 (5A) (SYNTHES? OR PRODUC?)
FILE 'NTIS'
         43799 SYNTHES?
        381531 PRODUC?
L20
             24 L8 (5A) (SYNTHES? OR PRODUC?)
```

(LACTO (W) N (W) NEOTETRAOSE)

```
FILE 'ESBIOBASE'
        228270 SYNTHES?
        694919 PRODUC?
          1300 L9 (5A) (SYNTHES? OR PRODUC?)
L21
FILE 'BIOTECHNO'
        170699 SYNTHES?
        394590 PRODUC?
          1016 L10(5A)(SYNTHES? OR PRODUC?)
L22
FILE 'WPIDS'
        160054 SYNTHES?
       2629547 PRODUC?
L23
          1004 L11(5A) (SYNTHES? OR PRODUC?)
TOTAL FOR ALL FILES
L24
         25348 L12 (5A) (SYNTHES? OR PRODUC?)
=> s 124(5a)(coli or bacter? or microb? or microorganism?)
FILE 'MEDLINE'
        268340 COLI
        818706 BACTER?
        585388 MICROB?
         39265 MICROORGANISM?
L25
             62 L13(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'SCISEARCH'
        255444 COLI
        424583 BACTER?
        162786 MICROB?
         52269 MICROORGANISM?
L26
            90 L14(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'LIFESCI'
        108870 COLI
        221191 BACTER?
         64340 MICROB?
         44294 MICROORGANISM?
L27
            43 L15(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'BIOTECHDS'
         50436 COLI
        136410 BACTER?
         23141 MICROB?
         29040 MICROORGANISM?
L28
            90 L16(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'BIOSIS'
        321938 COLI
       1641044 BACTER?
        505107 MICROB?
       3216975 MICROORGANISM?
L29
            94 L17(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'EMBASE'
        192981 COLI
        547561 BACTER?
        125446 MICROB?
        133095 MICROORGANISM?
L30
            56 L18(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'HCAPLUS'
        293508 COLI
        653912 BACTER?
```

```
486789 MICROB?
        170619 MICROORGANISM?
L31
           238 L19(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'NTIS'
          2942 COLI
         19329 BACTER?
         13166 MICROB?
          9347 MICROORGANISM?
L32
             1 L20 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'ESBIOBASE'
         80945 COLI
        238768 BACTER?
        314827 MICROB?
         47799 MICROORGANISM?
L33
            54 L21(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'BIOTECHNO'
         94549 COLI
        191870 BACTER?
         38419 MICROB?
         18193 MICROORGANISM?
L34
            36 L22(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
FILE 'WPIDS'
         32163 COLI
        129680 BACTER?
         58598 MICROB?
         57633 MICROORGANISM?
L35
            65 L23(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
TOTAL FOR ALL FILES
           829 L24(5A)(COLI OR BACTER? OR MICROB? OR MICROORGANISM?)
L36
=> s 136 not 2001-2008/py
FILE 'MEDLINE'
       4221099 2001-2008/PY
                 (20010000-20089999/PY)
L37
            37 L25 NOT 2001-2008/PY
FILE 'SCISEARCH'
       7790095 2001-2008/PY
                 (20010000-20089999/PY)
L38
            47 L26 NOT 2001-2008/PY
FILE 'LIFESCI'
        895221 2001-2008/PY
            25 L27 NOT 2001-2008/PY
L39
FILE 'BIOTECHDS'
        174757 2001-2008/PY
L40
            46 L28 NOT 2001-2008/PY
FILE 'BIOSIS'
       3897957 2001-2008/PY
L41
            50 L29 NOT 2001-2008/PY
FILE 'EMBASE'
       3713811 2001-2008/PY
L42
            35 L30 NOT 2001-2008/PY
FILE 'HCAPLUS'
       8090843 2001-2008/PY
```

L43

116 L31 NOT 2001-2008/PY

FILE 'NTIS'

121734 2001-2008/PY

L44 1 L32 NOT 2001-2008/PY

FILE 'ESBIOBASE'

2196803 2001-2008/PY

L45 25 L33 NOT 2001-2008/PY

FILE 'BIOTECHNO'

368875 2001-2008/PY

L46 28 L34 NOT 2001-2008/PY

FILE 'WPIDS'

6465009 2001-2008/PY

L47 32 L35 NOT 2001-2008/PY

TOTAL FOR ALL FILES

L48 442 L36 NOT 2001-2008/PY

=> dup rem 148

PROCESSING COMPLETED FOR L48

L49 204 DUP REM L48 (238 DUPLICATES REMOVED)

=> d tot

L49 ANSWER 1 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI A new chitosanase producing microbe, Burkholderia gladioli for manufacturing chitosan oligosaccharide;

Production of chitosan oligosaccharide by Burkholderia gladioli sp. CHB101

AN 2000-06955 BIOTECHDS

PI JP 2000041664 15 Feb 2000

L49 ANSWER 2 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Role of oligosaccharides in microbial glycoproteins and synthetic methods of neoglycoproteins

SO Nippon Nogei Kagaku Kaishi (2000), 74(11), 1237-1246 CODEN: NNKKAA; ISSN: 0002-1407

AU Takegawa, Kaoru

AN 2000:810811 HCAPLUS

DN 133:331223

L49 ANSWER 3 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Production of heterologous oligosaccharides by recombinant bacteria (recombinant oligosaccharides)

SO Carbohydrates in Chemistry and Biology (2000), Volume 2, 845-860. Editor(s): Ernst, Beat; Hart, Gerald W.; Sinay, Pierre. Publisher: Wiley-VCH Verlag GmbH, Weinheim, Germany. CODEN: 69AMJE

AU Geremia, Roberto A.; Samain, Eric

AN 2000:717510 HCAPLUS

DN 134:85146

L49 ANSWER 4 OF 204 MEDLINE on STN DUPLICATE 2

TI Large-scale production of oligosaccharides using engineered bacteria.

SO Current opinion in structural biology, (2000 Oct) Vol. 10, No. 5, pp. 536-41. Ref: 50
Journal code: 9107784. ISSN: 0959-440X.

AU Endo T; Koizumi S

AN 2000502273 MEDLINE

L49 ANSWER 5 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI A novel approach to the recovery of biologically active oligosaccharides

- from milk using a combination of enzymatic treatment and nanofiltration; combined lipase and nanofiltration of human defatted milk for production of oligosaccharide with anti-Escherichia coli activity
- SO Biotechnol.Bioeng.; (2000) 69, 4, 461-67 CODEN: BIBIAU ISSN: 0006-3592
- AU Sarney D B; Hale C; Frankel G; \*Vulfson E N
- AN 2000-10620 BIOTECHDS
- L49 ANSWER 6 OF 204 MEDLINE on STN DUPLICATE 3
- TI Microbial production of oligosaccharides: a review.
- SO Advances in applied microbiology, (2000) Vol. 47, pp. 299-343. Ref: 115 Journal code: 0370413. ISSN: 0065-2164.
- AU Prapulla S G; Subhaprada V; Karanth N G
- AN 2003345491 MEDLINE
- L49 ANSWER 7 OF 204 MEDLINE on STN DUPLICATE 4
- TI Large-scale production of CMP-NeuAc and sialylated oligosaccharides through bacterial coupling.
- SO Applied microbiology and biotechnology, (2000 Mar) Vol. 53, No. 3, pp. 257-61.
  - Journal code: 8406612. ISSN: 0175-7598.
- AU Endo T; Koizumi S; Tabata K; Ozaki A
- AN 2000233416 MEDLINE
- L49 ANSWER 8 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Synthesis of a di- and trisaccharide related to the repeating unit of E. coli O128 lipopolysaccharide
- SO Journal of Carbohydrate Chemistry (2000), 19(2), 243-251 CODEN: JCACDM; ISSN: 0732-8303
- AU Sengupta, Prabal; Basu, Sumanta; Chatterjee, Bishnu P.
- AN 2000:228023 HCAPLUS
- DN 133:30898
- L49 ANSWER 9 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Solid-phase synthesis of a bacterial oligosaccharide antigen.
- SO Abstracts of Papers, 220th ACS National Meeting, Washington, DC, United States, August 20-24, 2000 (2000) ORGN-216 CODEN: 69FZC3
- AU Seeberger, Peter H.; Melean, Luis G.; Haase, Wilm C.
- AN 2000:796718 HCAPLUS
- L49 ANSWER 10 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Large-scale production of GDP-fucose and Lewis X by bacterial coupling
- SO Journal of Industrial Microbiology & Biotechnology (2000), 25(4), 213-217 CODEN: JIMBFL; ISSN: 1367-5435
- AU Koizumi, S.; Endo, T.; Tabata, K.; Nagano, H.; Ohnishi, J.; Ozaki, A.
- AN 2001:59943 HCAPLUS
- DN 134:236268
- L49 ANSWER 11 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 5
- TI Uronic acid-containing oligosaccharins: Their biosynthesis, degradation and signalling roles in non-diseased plant tissues
- SO PLANT PHYSIOLOGY AND BIOCHEMISTRY, (JAN-FEB 2000) Vol. 38, No. 1-2, pp. 125-140.
  - ISSN: 0981-9428.
- AU Dumville J C; Fry S C (Reprint)
- AN 2000:283091 SCISEARCH
- L49 ANSWER 12 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Effect on gout flora of oligosaccharide synthesizing enzymes
- SO Shoka to Kyushu (2000), 23(2), 107-109

- CODEN: SHKYEZ; ISSN: 0389-3626
- AU Kariya, Kinya; Ogawa, Tomonari; Jo, Takashi
- AN 2001:384881 HCAPLUS
- DN 135:150320
- L49 ANSWER 13 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 6
- TI Effect of oligosaccharides and fibre substitutes on short-chain fatty acid production by human faecal microflora
- SO ANAEROBE, (APR 2000) Vol. 6, No. 2, pp. 87-92. ISSN: 1075-9964.
- AU Velazquez M; Davies C; Marett R; Slavin J L; Feirtag J M (Reprint)
- AN 2000:339021 SCISEARCH
- L49 ANSWER 14 OF 204 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 7
- TI Functional analysis of chimeras derived from the Sinorhizobium meliloti and Mesorhizobium loti nodC genes identifies regions controlling chitin oligosaccharide chain length
- SO Molecular and General Genetics [Mol. Gen. Genet.], (20000905) vol. 264, no. 1/2, pp. 75-81.
  ISSN: 0026-8925.
- AU Kamst, E.; Breek, C.K.; Spaink, H.P.
- AN 2001:17471 LIFESCI
- L49 ANSWER 15 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN
- TI Solid-phase synthesis of a bacterial oligosaccharide antigen.
- SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (20 AUG 2000) Vol. 220, Part 2, pp. U66-U66. MA 216-ORGN. ISSN: 0065-7727.
- AU Seeberger P H (Reprint); Melean L G; Haase W C
- AN 2001:131060 SCISEARCH
- L49 ANSWER 16 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Study on fructo-oligosaccharide production by microbial enzymatic reaction
- SO Shipin Kexue (Beijing) (2000), 21(6), 31-35 CODEN: SPKHD5; ISSN: 1002-6630
- AU Cao, Xia; Zhang, Wei; Wang, Yingfeng; Yang, Xiushan
- AN 2000:467331 HCAPLUS
- DN 133:149512
- L49 ANSWER 17 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
- TI Solid-phase synthesis of a bacterial oligosaccharide antigen.
- SO Abstracts of Papers American Chemical Society, (2000) Vol. 220, No. Part 2, pp. ORGN 216. print.

  Meeting Info.: 220th National Meeting of the American Chemical Society.

Washington, DC, Washington DC, USA. August 20-24, 2000. American Chemical Society.

CODEN: ACSRAL. ISSN: 0065-7727.

- AU Seeberger, Peter H. [Reprint author]; Melean, Luis G. [Reprint author]; Haase, Wilm C. [Reprint author]
- AN 2000:440809 BIOSIS
- L49 ANSWER 18 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI A process for preparation of 6-kestose oligosaccharides; by Acetobacter polysaccharogenes or Gluconobacter albidus activity on sucrose
- AN 1999-06786 BIOTECHDS
- PI JP 11046785 23 Feb 1999
- L49 ANSWER 19 OF 204 WPIDS COPYRIGHT 2008

```
Growth stimulator for vascular endothelial cells - containing an alginic
TI
     acid oligosaccharide obtained by treating alginic acid with Alteromonas
     sp. microorganisms or their cultured product
                    A 19990216 (199917)* JA 7[3]
PΙ
     JP 11043439
     HIURA N; KAWADA A; OKADA T; TAKAHARA H
IN
      ANSWER 20 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
L49
      Cloning, expression and characterization of a UDP-galactose 4-epimerase
ΤI
      from Escherichia coli;
         plasmid pET15b-galE expression in bacterium for enzyme
         production and application in alpha-Gal
         oligosaccharide production for xenotransplantation support
SO
      Biotechnol.Lett.; (1999) 21, 12, 1131-35
      CODEN: BILED3
                       ISSN: 0141-5492
      Chen X; Kowal P; Hamad S; Fan H; *Wang P.G
ΔII
      2000-02215 BIOTECHDS
AN
L49
      ANSWER 21 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
      Beta-galactooligosaccharide synthesis with beta-galactosidase from
TI
      Sulfolobus solfataricus, Aspergillus oryzae, and Escherichia coli;
         oligosaccharide production using thermostable and non-thermostable
         enzyme
      Enzyme Microb.Technol.; (1999) 25, 6, 509-16
SO
      CODEN: EMTED2
                      ISSN: 0141-0229
      Reuter S; Nygaard A R; *Zimmermann W
ΑIJ
AΝ
      1999-12884 BIOTECHDS
L49
      ANSWER 22 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
TI
      Synthesis of alpha-galacto-oligosaccharides by a cloned
      alpha-galactosidase from Bifidobacterium adolescentis;
         galacto-oligosaccharide probiotic production using
         transformed Escherichia coli
SO
      Biotechnol.Lett.; (1999) 21, 5, 441-45
      CODEN: BILED3
                       ISSN: 0141-5492
ΑU
      van den Broek L A M; Ton J; Verdoes J C; van Laere K M J; *Voragen A G J;
      Beldman G
AN
      1999-10111 BIOTECHDS
L49
     ANSWER 23 OF 204
                          MEDLINE on STN
                                                         DUPLICATE 8
	exttt{TI} \cdot
     Microbial production of inulo-oligosaccharides
     by an endoinulinase from Pseudomonas sp. expressed in Escherichia coli.
SO
     Journal of bioscience and bioengineering, (1999) Vol. 87, No. 3, pp.
     Journal code: 100888800. ISSN: 1389-1723.
ΑU
     Yun J W; Choi Y J; Song C H; Song S K
AN
     2005556787
                    MEDLINE
L49
     ANSWER 24 OF 204
                          MEDLINE on STN
                                                         DUPLICATE 9
     Oligosaccharide recognition signals and defence reactions in marine
TI
     plant-microbe interactions.
SO
     Current opinion in microbiology, (1999 Jun) Vol. 2, No. 3, pp. 276-83.
     Ref: 64
     Journal code: 9815056. ISSN: 1369-5274.
ΑU
     Potin P; Bouarab K; Kupper F; Kloareg B
     1999316463
ΑN
                    MEDLINE
L49
     ANSWER 25 OF 204
                          MEDLINE on STN
                                                         DUPLICATE 10
     Electron beam fragmentation of bacterial polysaccharides as a
ΤI
     method of producing oligosaccharides for the
     preparation of conjugate vaccines.
     FEMS microbiology letters, (1999 May 15) Vol. 174, No. 2, pp. 255-63.
SO
     Journal code: 7705721. ISSN: 0378-1097.
AU
     Pawlowski A; Svenson S B
AN
```

1999271175

MEDLINE

- L49 ANSWER 26 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Isolation of endophytes from plants in Southeast Asia and Japan, and their identification by 18S rRNA gene
- SO Biotechnology for Sustainable Utilization of Biological Resources in the Tropics (1999), 13, 227-232 CODEN: BSUTFT
- AU Tanaka, Michiko; Sukiman, Harmastini; Takebayashi, Miho; Saito, Katsuichi; Suto, Manabu; Prana, Titik K.; Prana, Made Sri; Tomita, Fusao
- AN 2000:309091 HCAPLUS
- DN 133:234880
- L49 ANSWER 27 OF 204 MEDLINE on STN DUPLICATE 11
- TI The living factory: in vivo production of N-acetyllactosamine containing carbohydrates in E. coli.
- SO Glycoconjugate journal, (1999 Mar) Vol. 16, No. 3, pp. 205-12. Journal code: 8603310. ISSN: 0282-0080.
- AU Bettler E; Samain E; Chazalet V; Bosso C; Heyraud A; Joziasse D H; Wakarchuk W W; Imberty A; Geremia A R
- AN 2000062031 MEDLINE
- L49 ANSWER 28 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 12
- TI Functional domains in the chitin oligosaccharide synthase NodC and related beta-polysaccharide synthases
- SO TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY, (JUL 1999) Vol. 11, No. 60, pp. 187-199.
  ISSN: 0915-7352.
- AU Kamst E (Reprint); Spaink P H
- AN 1999:787324 SCISEARCH
- L49 ANSWER 29 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 13
- TI Chemical synthesis of N-acetylglucosamine derivatives and their use as glycosyl accepters by the Mesorhizobium loti chitin oligosaccharide synthase NodC
- SO CARBOHYDRATE RESEARCH, (15 OCT 1999) Vol. 321, No. 3-4, pp. 176-189. ISSN: 0008-6215.
- AU Kamst E; Zegelaar-Jaarsveld K; van der Marel G A; van Boom J H; Lugtenberg B J J; Spaink H P (Reprint)
- AN 1999:941201 SCISEARCH
- L49 ANSWER 30 OF 204 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 14
- TI Synthesis of inner core antigens related to Chlamydia, Pseudomonas and Acinetobacter LPS
- SO Journal of Endotoxin Research [J. Endotoxin Res.], (19990000) vol. 5, no. 3, pp. 157-163.
  ISSN: 0968-0519.
- AU Kosma, P.; Reiter, A.; Zamyatina, A.; Wimmer, N.; Glueck, A.; Brade, H.
- AN 2000:15260 LIFESCI
- L49 ANSWER 31 OF 204 MEDLINE on STN DUPLICATE 15
- TI Synthesis of oligosaccharides by bacterial enzymes.
- SO Glycoconjugate journal, (1999 Feb) Vol. 16, No. 2, pp. 141-6. Ref: 54 Journal code: 8603310. ISSN: 0282-0080.
- AU Johnson K F
- AN 2000077660 MEDLINE
- L49 ANSWER 32 OF 204 MEDLINE on STN DUPLICATE 16
- TI Enzymatic synthesis of Kdn oligosaccharides by a bacterial alpha-(2-->6)-sialyltransferase.
- SO Carbohydrate research, (1999 Jan 31) Vol. 315, No. 1-2, pp. 137-41. Journal code: 0043535. ISSN: 0008-6215.
- AU Kajihara Y; Akai S; Nakagawa T; Sato R; Ebata T; Kodama H; Sato K
- AN 1999313754 MEDLINE

- L49 ANSWER 33 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Isolation of chitinolytic bacteria from the viscera of korean bony fishes and optimization of the enzyme production
- SO Journal of Fisheries Science and Technology (1999), 2(1), 105-111 CODEN: JFITFY; ISSN: 1226-9204
- AU Lee, Jung-Suck; Joo, Dong-Sik; Cho, Soon-Yeong; Cho, Man-Gi; Lee, Eung-Ho
- AN 1999:731614 HCAPLUS
- DN 132:90444
- L49 ANSWER 34 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 17
- TI Production of inulo-oligosaccharides from inulin by recombinant E-coli containing endoinulinase activity
- SO BIOPROCESS ENGINEERING, (AUG 1999) Vol. 21, No. 2, pp. 101-106. ISSN: 0178-515X.
- AU Yun J W (Reprint); Song C H; Choi J W; Choi Y J; Song S K
- AN 1999:629397 SCISEARCH
- L49 ANSWER 35 OF 204 MEDLINE on STN DUPLICATE 18
- TI Function of chitin oligosaccharides in plant and animal development.
- SO EXS, (1999) Vol. 87, pp. 71-83. Ref: 59 Journal code: 9204529. ISSN: 1023-294X.
- AU Bakkers J; Kijne J W; Spaink H P
- AN 2000391648 MEDLINE
- L49 ANSWER 36 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Problems and strategies of oligosaccharide synthesis using microbial enzymes
- SO Shipin Yu Fajiao Gongye (1999), 25(4), 41-47 CODEN: SPYYDO; ISSN: 0253-990X
- AU Cao, Jinsong; Wang, Xiaoqin; Peng, Zhiying
- AN 1999:715896 HCAPLUS
- DN 132:264230
- L49 ANSWER 37 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
- TI Production of O-acetylated and sulfated chitooligosaccharides by recombinant Escherichia coli strains harboring different combinations of nod genes.
- SO Journal of Biotechnology, (June 11, 1999) Vol. 72, No. 1-2, pp. 33-47. print.

  CODEN: JBITD4. ISSN: 0168-1656.
- AU Samain, Eric [Reprint author]; Chazalet, Valerie; Geremia, Roberto A.
- AN 1999:349692 BIOSIS
- L49 ANSWER 38 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 19
- TI Analysis and characterisation of cyclodextrins and their inclusion complexes by affinity capillary electrophoresis
- SO JOURNAL OF CHROMATOGRAPHY A, (19 MAR 1999) Vol. 836, No. 1, pp. 3-14. ISSN: 0021-9673.
- AU Larsen K L; Zimmermann W (Reprint)
- AN 1999:250031 SCISEARCH
- L49 ANSWER 39 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Expressing high levels of glycosyltransferases;
  - recombinant enzyme production via vector-mediated glycosyltransferase gene transfer and expression in Escherichia coli for
    - therapeutic oligosaccharide production
- AU Wakarchuk W W; Young N M
- AN 1999-02440 BIOTECHDS
- PI WO 9854331 3 Dec 1998
- L49 ANSWER 40 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

Gene encoding a beta-galactoside-alpha-2,6-sialyltransferase of bacterial ΤI origin; Photobacterium damsela recombinant enzyme production by vector expression in Escherichia coli for use in sialylated oligosaccharide production Yamamoto T; Nakashizuka M; Terada I AU 1998-10644 BIOTECHDS AN WO 9838315 3 Sep 1998 PΙ ANSWER 41 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN L49 Preparation of fructosyl-containing oligosaccharides and products TI therefrom for bifidobacterium-nourishing medium U.S., 7 pp., Cont. of U.S. Ser. No. 282,807, abandoned. SO CODEN: USXXAM IN Whistler, Roy L.; Bemiller, James N. 1998:799690 HCAPLUS ANDN 130:35374 PATENT NO. KIND DATE DATE APPLICATION NO. \_\_\_\_\_ ---------\_\_\_\_\_ -----19981201 US 1996-662201 19960611 PΙ US 5843922 Α ANSWER 42 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN L49 Use of anti-endotoxin synthetic peptides and anti-endotoxin antibodies ΤI for the prophylaxis and treatment of endotoxicosis and septic shock and other conditions associated with lipopolysaccharide. A2 19980520 (199824) \* EN 5[0] PT EP 842666 R: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI IT 1287158 B 19980804 (200055) IT IN PORRO M L49 ANSWER 43 OF 204 MEDLINE on STN **DUPLICATE 20** Use of Escherichia coli polyphosphate kinase for TI oligosaccharide synthesis. SO Bioscience, biotechnology, and biochemistry, (1998 Aug) Vol. 62, No. 8, pp. 1594-6. Journal code: 9205717. ISSN: 0916-8451. ΑU Noquchi T; Shiba T 1998430132 MEDLINE ANL49 ANSWER 44 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN Use of Escherichia coli polyphosphate-kinase for TТ oligosaccharide synthesis; recombinant enzyme production and purification via vector plasmid pTrc-PPK-mediated ppk gene transfer and expression in bacterium SO Biosci.Biotechnol.Biochem.; (1998) 62, 8, 1594-96 CODEN: BBBIEJ ISSN: 0916-8451 ΑU Hoguchi T; Shiba T 1999-12277 BIOTECHDS AN L49 ANSWER 45 OF 204 MEDLINE on STN **DUPLICATE 21** ΤI Large-scale production of UDP-galactose and globotriose by coupling metabolically engineered bacteria. SO Nature biotechnology, (1998 Sep) Vol. 16, No. 9, pp. 847-50. Journal code: 9604648. ISSN: 1087-0156. ΑU Koizumi S; Endo T; Tabata K; Ozaki A AN1998414050 MEDLINE L49 ANSWER 46 OF 204 MEDLINE on STN **DUPLICATE 22** Isolation and structural analyses of positional isomers of ΤI 6(1), 6m-di-O-alpha-D-mannopyranosyl-cyclomaltooctaose (m = 2-5) and6-O-alpha-(n-O-alpha-D-mannopyranosyl)-alpha-D-mannopyranosylcyclomaltooctaose (n = 2, 3, 4, and 6). Carbohydrate research, (1998 Aug) Vol. 310, No. 4, pp. 229-38.

SO

Journal code: 0043535. ISSN: 0008-6215.

- AU Okada Y; Matsuda K; Koizumi K; Hamayasu K; Hashimoto H; Kitahata S AN 1999038702 MEDLINE
- L49 ANSWER 47 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI New heat stable xylanase and related nucleic acid and vectors; thermostable endo-1,4-beta-D-xylanase expression from new vector in microorganism for use in xylose, xylo-oligosaccharide production, pulp bleaching, feedstuff treatment, etc.
- AU Perez S; Breton C; Debeire P
- AN 1997-07295 BIOTECHDS
- PI WO 9714803 24 Apr 1997
- L49 ANSWER 48 OF 204 MEDLINE on STN DUPLICATE 23
- TI Chitin oligosaccharides can induce cortical cell division in roots of Vicia sativa when delivered by ballistic microtargeting.
- SO Development (Cambridge, England), (1997 Dec) Vol. 124, No. 23, pp. 4887-95.

  Journal code: 8701744. ISSN: 0950-1991.
- AU Schlaman H R; Gisel A A; Quaedvlieg N E; Bloemberg G V; Lugtenberg B J; Kijne J W; Potrykus I; Spaink H P; Sautter C
- AN 1998088701 MEDLINE
- L49 ANSWER 49 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 24
- TI Honeydew sugars and osmoregulation in the pea aphid Acyrthosiphon pisum
- SO JOURNAL OF EXPERIMENTAL BIOLOGY, (AUG 1997) Vol. 200, No. 15, pp. 2137-2143.
  ISSN: 0022-0949.
- AU Wilkinson T L (Reprint); Ashford D A; Pritchard J; Douglas A E
- AN 1997:587016 SCISEARCH
- L49 ANSWER 50 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Comparison of two levanases producing specific lengths of levan-oligosaccharides
- SO Kagaku to Kogyo (Osaka) (1997), 71(9), 386-391 CODEN: KKGOAG; ISSN: 0368-5918
- AU Murakami, Hiromi; Kitahata, Sumio
- AN 1997:611452 HCAPLUS
- DN 127:259432
- L49 ANSWER 51 OF 204 MEDLINE on STN DUPLICATE 25
- TI Role of intestinal bacteria in nutrient metabolism.
- SO JPEN. Journal of parenteral and enteral nutrition, (1997 Nov-Dec) Vol. 21, No. 6, pp. 357-65. Ref: 104
  Journal code: 7804134. ISSN: 0148-6071.
- AU Cummings J H; Macfarlane G T
- AN 1998069210 MEDLINE
- L49 ANSWER 52 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI An endo-chitosanase from Bacillus sp. GM44 that produces chitosan oligosaccharides with high degree of polymerization
- SO Advances in Chitin Science (1997), 2, 296-301 CODEN: ACSCFF
- AU Choi, Yeun Jin; Kim, Eun Jung; Kim, Tae Un; Shin, Yong Chul
- AN 1998:181377 HCAPLUS
- DN 128:291908
- L49 ANSWER 53 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 26
- TI Synthesis of oligosaccharides of bacterial origin containing heptoses, uronic acids and fructofuranoses as synthetic challenges
- SO GLYCOSCIENCE SYNTHESIS OF OLIGOSACCHARIDES AND GLYCOCONJUGATES, (1997) Vol. 186, pp. 171-202.
  ISSN: 0342-6793.

- AU Oscarson S (Reprint)
- AN 1997:240441 SCISEARCH
- L49 ANSWER 54 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Study on the production of oligosaccharides by using enzymes from Bacillus genus
- SO Oyo Toshitsu Kagaku (1997), 44(1), 61-67 CODEN: OTKAE3; ISSN: 1340-3494
- AU Oguma, Tetsuya
- AN 1997:369287 HCAPLUS
- DN 127:49228
- L49 ANSWER 55 OF 204 MEDLINE ON STN DUPLICATE 27
- TI Gram-scale synthesis of recombinant chitooligosaccharides in Escherichia coli.
- SO Carbohydrate research, (1997 Jul 11) Vol. 302, No. 1-2, pp. 35-42. Journal code: 0043535. ISSN: 0008-6215.
- AU Samain E; Drouillard S; Heyraud A; Driguez H; Geremia R A
- AN 97393445 MEDLINE
- L49 ANSWER 56 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 28
- TI Role of intestinal bacteria in nutrient metabolism
- SO CLINICAL NUTRITION, (FEB 1997) Vol. 16, No. 1, pp. 3-11. ISSN: 0261-5614.
- AU Cummings J H (Reprint); Macfarlane G T
- AN 1997:315016 SCISEARCH
- L49 ANSWER 57 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI New Aspergillus fumigatus mutant capable of decomposing chitosan is used to produce chitosan-oligosaccharide by culturing the microbe
- PI JP 08322554 A 19961210 (199718)\* JA 7[5] JP 2797081 B2 19980917 (199842) JA 7 KR 140430 B1 19980701 (200017) KO
- IN JUNG B; LEE S
- L49 ANSWER 58 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Rhizobium leguminosarum bv. trifolii produces lipo-chitin oligosaccharides with nodE-dependent highly unsaturated fatty acyl moieties. An electrospray ionization and collision-induced dissociation tandem mass spectrometric study
- SO Journal of Biological Chemistry (1996), 271(37), 22563-22569 CODEN: JBCHA3; ISSN: 0021-9258
- AU van der Drift, Koen M. G. M.; Spaink, Herman P.; Bloemberg, Guido V.; van Brussel, Anton A. N.; Lugtenberg, Ben J. J.; Haverkamp, Johan; Thomas-Oates, Jane E.
- AN 1996:572214 HCAPLUS
- DN 125:269553
- L49 ANSWER 59 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Production of galacto-oligosaccharide from lactose by Sterigmatomyces elviae CBS8119.[Erratum to document cited in CA123:312277]
- SO Applied and Environmental Microbiology (1996), 62(4), 1491 CODEN: AEMIDF; ISSN: 0099-2240
- AU Onishi, Norimasa; Yamashiro, Akihiro; Yokozeki, Kenzo
- AN 1996:213785 HCAPLUS
- DN 125:56295
- L49 ANSWER 60 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Controlled bioconversion of the extracellular polysaccharide of Klebsiella pneumoniae LMG 3136;
  - L-fucose-containing polysaccharide production and degradation by soil-derived microorganism for oligosaccharide production (conference paper)

- SO Meded.Fac.Landbouwwet.Rijksuniv.Gent; (1996) 61, 4A, 1445-48

  CODEN: MFLRA3 ISSN: 0368-9697

  Applied Biotechnology, 10th Forum, Ghent, Belgium, 26-27 September, 1996.
- AU Vanhooren P T; Mornie C J C; Vandamme E J
- AN 1996-15510 BIOTECHDS
- L49 ANSWER 61 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 29
- TI Chemical approaches to bacterial vaccines. Synthesis of mycobacterial oligosaccharide-protein conjugates for use as serodiagnostics and immunogens
- SO BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, (18 JUN 1996) Vol. 6, No. 12, pp. 1387-1392.
  ISSN: 0960-894X.
- AU Dubois E P (Reprint); Robbins J B; Pozsgay V
- AN 1996:487315 SCISEARCH
- L49 ANSWER 62 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Cladinose analogs of sixteen-membered macrolide antibiotics. I. Synthesis of 4-O-alkyl-L-cladinose analogs via glycosidation
- SO Journal of Antibiotics (1996), 49(6), 582-592 CODEN: JANTAJ; ISSN: 0021-8820
- AU Kurihara, Ken-ichi; Ajito, Keichi; Shibahara, Seiji; Ishizuka, Tsuneo; Hara, Osamu; Araake, Minako; Omoto, Shioji
- AN 1996:390305 HCAPLUS
- DN 125:168505
- L49 ANSWER 63 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Production and application of microbial endoglycosidases acting on oligosaccharides of glycoconjugates
- SO Microbial Utilization of Renewable Resources (1996), Volume Date 1995, 9, 420-429

  CODEN: MURRE6
- AU Yamamoto, Kenji; Kadowaki, Setsu; Takegawa, Kaoru; Fan, Jian-Qiang; Ashida, Hisashi; Kumagai, Hidehiko; Tochikura, Tatsurokuro
- AN 1996:510616 HCAPLUS
- DN 125:161907
- L49 ANSWER 64 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Sugar signals and legume lectins
- SO Biology of Plant-Microbe Interactions (1996), Volume 1, 399-402 Publisher: International Society for Molecular Plant-Microbe Interactions, St. Paul, Minn. CODEN: BPIIAC
- AU Diaz, Clara L.; Spaink, Herman P.; Kijne, Jan W.
- AN 1997:239949 HCAPLUS
- DN 126:235885
- L49 ANSWER 65 OF 204 MEDLINE on STN DUPLICATE 30
- TI Structural determination of symbiotic nodulation factors from the broad host-range Rhizobium species NGR234.
- SO Carbohydrate research, (1996 Aug 19) Vol. 289, pp. 115-36. Journal code: 0043535. ISSN: 0008-6215.
- AU Price N P; Talmont F; Wieruszeski J M; Prome D; Prome J C
- AN 96399206 MEDLINE
- L49 ANSWER 66 OF 204 NTIS COPYRIGHT 2008 NTIS on STN
- TI Seibutsu kino wo riyoshita chikyu kankyo kaizen gijutsu ni kansuru chosa. Lignobio process no kochiku. (Investigation into technology for improving the global environment using biological functions. Construction of the lignobiological process).
- NR DE96739631/XAB; NEDO-GET-9402
- 252p; Mar 1995
- PD Mar 1995
- AN 1996(19):04476 NTIS

- L49 ANSWER 67 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Production of microorganism to yield chitosan

oligosaccharide;

purification from Absidia coerulea or Mucor tuberculisporus by cell wall lysis using Bacillus sp. chitosanase or Trichoderma sp. cellulase lytic enzyme

AN 1995-11530 BIOTECHDS

PI JP 07155193 20 Jun 1995

- L49 ANSWER 68 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI New protein with cycloinulo-oligosaccharide-fructanotransferase activity; recombinant enzyme production by gene expression in Bacillus circulans
- AN 1995-06720 BIOTECHDS
- PI JP 07041500 10 Feb 1995
- L49 ANSWER 69 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI New pyrazine derivative inhibiting agglutination of erythrocytes or platelets is prepared from chitin or chitin oligosaccharide by reacting with an enzyme produced by Vibrio alginolyticus
- PI JP 07118286 A 19950509 (199527) \* JA 7[4]
- IN MATSUDA A; MURAO S; OKAMURA K; TONE H; YANAI T
- L49 ANSWER 70 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Bacterial toxin neutraliser comprises the aminocarbonyl prod. obtained from protein and oligosaccharide having galactose at non-reducing terminal and glucose at reducing terminal of saccharide chain
- PI JP 07033679 A 19950203 (199515) \* JA 4[0]
- IN SHIDA H; TAKAMIZAWA K
- L49 ANSWER 71 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Producing oligosaccharide(s) containing panose by inoculating Saccharomyces microbes in medium containing maltose as carbon source, culturing in aerobic conditions and separating produced panose
- PI JP 07008287 A 19950113 (199512) \* JA 4[0]
- IN NISHIDA K; OCHIAI T
- L49 ANSWER 72 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Producing oligosaccharide(s) containing panose by inoculating Monilella microbes to medium containing maltose carbon source, aerobically culturing and separating obtd. panose
- PI JP 07008286 A 19950113 (199512)\* JA 4[0]
- IN NISHIDA K; OCHIAI T
- L49 ANSWER 73 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Panose-containing oligosaccharide production for food and drink or drugs comprises inoculating Debaryomyces in maltose-containing medium, and culturing microbe in aerobic conditions
- PI JP 07008285 A 19950113 (199512)\* JA 4[0]
- IN NISHIDA K; OCHIAI T
- L49 ANSWER 74 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Panose containing oligosaccharide production, used for food, drink or drugs involves culturing Aureobasidium microbes under aerobic conditions using maltose containing medium
- PI JP 07008283 A 19950113 (199512)\* JA 6[0]
- IN NISHIDA K; OCHIAI T; WAKAO K
- L49 ANSWER 75 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Mass spectrometric analysis of chitin oligosaccharides produced by Rhizobium NodC protein in Escherichia coli
- SO Journal of Bacteriology (1995), 177(21), 6282-5 CODEN: JOBAAY; ISSN: 0021-9193
- AU Kamst, Eric; van der Drift, Koen M. G. M.; Thomas-Oates, Jane E.; Lugtenberg, Ben J. J.; Spaink, Herman P.

- AN 1995:904021 HCAPLUS
- DN 123:310015
- L49 ANSWER 76 OF 204 MEDLINE on STN DUPLICATE 32
- TI Production of galacto-oligosaccharide from lactose by Sterigmatomyces elviae CBS8119.
- SO Applied and environmental microbiology, (1995 Nov) Vol. 61, No. 11, pp. 4022-5.
  - Journal code: 7605801. ISSN: 0099-2240.
- AU Onishi N; Yamashiro A; Yokozeki K
- AN 96064415 MEDLINE
- L49 ANSWER 77 OF 204 MEDLINE ON STN DUPLICATE 33
- TI Synthesis of "Nod"-like chitin oligosaccharides by the Xenopus developmental protein DG42.
- SO Proceedings of the National Academy of Sciences of the United States of America, (1995 Apr 11) Vol. 92, No. 8, pp. 3498-501.

  Journal code: 7505876. ISSN: 0027-8424.
- AU Semino C E; Robbins P W
- AN 95241529 MEDLINE
- L49 ANSWER 78 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Studies on a recombinant amylosucrase;
  - Neisseria polysaccharea enzyme expression in Escherichia coli , for potential use in oligosaccharide production (conference paper)
- SO Prog.Biotechnol.; (1995) 10, 313-20
  CODEN: PBITE3 ISSN: 0921-0423
  Carbohydrate Bioengineering, International Conference, Elsinore, Denmark, 23-26 April, 1995.
- AU Remaud-Simeon M; Albaret F; Canard B; Varlet I; Colonna P; Willemot R M; Monsan P
- AN 1996-10216 BIOTECHDS
- L49 ANSWER 79 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Sannamycin-type amino glycoside antibiotics of natural and non-natural (mirror-image) configuration total syntheses and biological activity
- SO Liebigs Annalen (1995), (2), 291-316 CODEN: LANAEM; ISSN: 0947-3440
- AU Ludin, Christian; Weller, Thomas; Seitz, Bernhard; Meier, Walter; Erbeck, Silke; Hoenke, Christoph; Krieger, Richard; Keller, Manfred; Knothe, Lothar; et al.
- AN 1995:348064 HCAPLUS
- DN 123:257178
- L49 ANSWER 80 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 34
- TI BIOTECHNICAL MODIFICATION OF CARBOHYDRATES
- SO FEMS MICROBIOLOGY REVIEWS, (FEB 1995) Vol. 16, No. 2-3, pp. 163-186. ISSN: 0168-6445.
- AU VANDAMME E J (Reprint); SOETAERT W
- AN 1995:170580 SCISEARCH
- L49 ANSWER 81 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Oligosaccharide pharmaceuticals
- SO Biol. Approaches Ration. Drug Des. (1995), 131-47. Editor(s): Weiner, David B.; Williams, William V. Publisher: CRC, Boca Raton, Fla. CODEN: 61EZA8
- AU Roth, Stephen; Zopf, David
- AN 1995:546987 HCAPLUS
- DN 123:112522
- L49 ANSWER 82 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Synthesis of 5-deoxy-5-epifluoro derivatives of arbekacin, amikacin, and 1-N-[(S)-4-amino-2-hydroxybutanoyl]tobramycin (study on structure-toxicity

```
relationships)
     Carbohydrate Research (1995), 276(1), 75-89
SO
     CODEN: CRBRAT; ISSN: 0008-6215
     Shitara, Tetsuo; Umemura, Eijiro; Tsuchiya, Tsutomu; Matsuno, Tomio
AN
     1995:902492 HCAPLUS
DN
     124:176722
     ANSWER 83 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
L49
     Production of fructosylxyloside from Scopulaliopsis brevicaulis. II.
TI
     Method for crystallizing fructosylxyloside in water and the
     characteristics of crystals
     Seito Gijutsu Kenkyu Kaishi (1995), 43, 43-9
SO
     CODEN: SGIKA6; ISSN: 0370-9841
     Takeda, Hiroyuki; Sato, Yuzi; Tukada, Masayuki; Hidano, Tetuhiro
ΣΤΤ
     1996:261077 HCAPLUS
ΔN
     124:287170
DN
     ANSWER 84 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
L49
     Studies on oligosaccharides related to gram-negative bacterial O-antigen
TI
     Huaxue Tongbao (1995), (3), 25-30
SO
     CODEN: HHTPAU; ISSN: 0441-3776
     Zhang, Jian; Mao, Jianmin; Cai, Mengshen
AII
     1995:886680 HCAPLUS
AN
DN
     123:282954
      ANSWER 85 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
T.49
      Production of Bacillus licheniformis maltogenic amylase (BLMA) in
TI
      recombinant E. coli;
         over-production in Escherichia coli high cell density fed-batch
         culture by suppression of citric acid formation (conference abstract)
      Abstr.Pap.Am.Chem.Soc.; (1995) 209 Meet., Pt.1, BIOT119
SO
      CODEN: ACSRAL
                       ISSN: 0065-7727
      209th ACS National Meeting, Anaheim, CA, 2-6 April, 1995.
AU
      Lee W J; Kim M D; Park K H; Seo J H
      1995-13425 BIOTECHDS
AN
      ANSWER 86 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
L49
      Glycosyltransferases in oligosaccharide synthesis: selective
TI
      beta-mannosylation of chitobiose to the N-linked core trisaccharide of
      glycoproteins;
         beta-mannosyltransferase over-expression in Escherichia coli
         and purification and immobilization for oligosaccharide
         production (conference abstract)
      Abstr.Pap.Am.Chem.Soc.; (1995) 209 Meet., Pt.1, BIOT114
SO
                       ISSN: 0065-7727
      CODEN: ACSRAL
      209th ACS National Meeting, Anaheim, CA, 2-6 April, 1995.
ΑU
      Flitsch S L
AN
      1995-13381 BIOTECHDS
      ANSWER 87 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
L49
ΤI
      A gene encoding a protein having agarase activity;
         Vibrio sp. recombinant agarase production following gene cloning and
         expression in Escherichia coli; potential application in
         neo-agaro-oligosaccharide production
      1995-01816 BIOTECHDS
ΔN
      JP 06284888 11 Oct 1994
PΙ
     ANSWER 88 OF 204 WPIDS COPYRIGHT 2008
                                                  THE THOMSON CORP on STN
T.49
     Cyclic inulo-oligosaccharide(s) for foodstuff additives - obtd. by
     treating inulin with the supernatant or cells from culture of a
     microorganism which produces a suitable enzyme
                    A1 19940511 (199420)* JA 15[0]
PΙ
     WO 9410295
         RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
          W: US
     JP 06141856
                    A 19940524 (199425) JA 3[0]
```

```
JP 06141879
                    A 19940524 (199425) JA 4
IN
     KUSHIBE S; MORIMOTO H; MORIMOTO Y
                                                  THE THOMSON CORP on STN
    ANSWER 89 OF 204 WPIDS COPYRIGHT 2008
L49
     New tetra:glycose and its partial fatty acid ester used as surfactant
ΤI
     obtd. by culturing microorganisms of Actinomycetes or Micropolyspora genus
     in medium
     JP 06298784
                    A 19941025 (199502)* JA 5[0]
рT
                    B2 19961218 (199704) JA 5[0]
     JP 2564752
     GAMA Y; ISHIGAMI Y; ITO T; SOMEYA J; TAKAMORI Y
IN
    ANSWER 90 OF 204 WPIDS COPYRIGHT 2008
                                                  THE THOMSON CORP on STN
T.49
     New cyclo-iso:malto-oligosaccharide(s) - are inclusion agents which can
ΤI
     solubilise and stabilise substances and for use in e.g. medicaments and
     food
     EP 608636
                    A1 19940803 (199430) * EN 15[4]
PΤ
         R: DE FR GB NL SE
     JP 06197783
                    A 19940719 (199433)
                                           JΑ
                                               6[3]
                                          EN
                                              10[4]
     US 5364936
                    A 19941115 (199445)
                                          JA
     JP 07008276
                    A 19950113 (199512)
                                              7
                                          EN
                                              10[4]
     US 5453369
                    A 19950926 (199544)
                                          EN
                                              17[4]
     EP 608636
                    B1 19970305 (199714)
          R: DE FR GB NL SE
                                          DE
     DE 69308531
                    E 19970410 (199720)
                                           JA
     JP 3075873
                    B2 20000814 (200043)
                                              6
                                           JA 9
     JP 3117328
                    B2 20001211 (200101)
IN
     HORIUCHI T; OGUMA T; OGUMAM T; TOBE K
L49
    ANSWER 91 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
     Recombinant whole cells as catalysts for enzymic synthesis of
     oligosaccharides and glycopeptides
     Angewandte Chemie (1994), 106(12), 1346-7 (See also Angew. Chem., Int. Ed.
SO
     Engl., 1994, 33(12), 1241-2)
     CODEN: ANCEAD; ISSN: 0044-8249
AU
     Herrmann, Guido F.; Wang, Peng; Shen, Gwo-Jenn; Wong, Chi-Huey
AN
     1994:555800 HCAPLUS
DN
     121:155800
L49
      ANSWER 92 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
      On the action mechanism of cyclomaltodextrin-glucanotransferases from
TТ
      alkalophilic, thermophilic and mesophilic microorganisms;
         cyclomaltodextrin-glucanotransferase characterization for use in
         cyclodextrin production
      Biokhimiya; (1994) 59, 8, 1122-29
SO
      CODEN: BIOHAO
      Abelian V H; Yamamoto T; Afrikian E G
ΑU
AN
      1994-14334 BIOTECHDS
     ANSWER 93 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
L49
     The in vitro biosynthesis of functional nodulation factors (Nod Rm)
ΤI
     produced by Rhizobium meliloti 1021
SO
     Cellular and Molecular Biology (Paris) (1994), 40(7), 1029-37
     CODEN: CMOBEF; ISSN: 0145-5680
ΑU
     Semino, Carlos E.; Dankert, Marcelo A.
     1995:140594 HCAPLUS
ΔN
DN
     122:27438
L49
    ANSWER 94 OF 204
                          MEDLINE on STN
                                                        DUPLICATE 35
TI
     Nodulation protein NodL of Rhizobium leguminosarum O-acetylates
     lipo-oligosaccharides, chitin fragments and N-acetylglucosamine in vitro.
     Molecular microbiology, (1994 Feb) Vol. 11, No. 4, pp. 793-804.
SO
     Journal code: 8712028. ISSN: 0950-382X.
     Bloemberg G V; Thomas-Oates J E; Lugtenberg B J; Spaink H P
ΑIJ
ΑN
     94254735
                 MEDLINE
```

- L49 ANSWER 95 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Molecular signals related to the nodulation of legumes by rhizobia
- SO Revista Brasileira de Ciencia do Solo (1994), 18(3), 339-64 CODEN: RBCSDP; ISSN: 0100-0683
- AU Hungria, M.
- AN 1995:669935 HCAPLUS
- DN 123:193547
- L49 ANSWER 96 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Batch production of high-content fructo-oligosaccharides from sucrose by the mixed-enzyme system of beta-fructofuranosidase and glucose-oxidase; application as a sweetener
- SO J.Ferment.Bioeng.; (1994) 77, 2, 159-63

CODEN: JFBIEX

- AU Yun J W; Lee M G; \*Song S K
- AN 1994-05190 BIOTECHDS
- L49 ANSWER 97 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI The molecular basis of host specificity in the Rhizobium leguminosarum-plant interaction
- SO Current Plant Science and Biotechnology in Agriculture (1994), 21(Advances in Molecular Genetics of Plant-Microbe Interactions, Vol. 3), 91-8 CODEN: CPBAE2; ISSN: 0924-1949
- AU Spaink, Herman P.; Bloemberg, Guido V.; Wijfjes, Andre H. M.; Ritsema, Tita; Geiger, Otto; Lopez-Lara, Isabel M.; Harteveld, Marga; Kafetzopoulos, Dimitris; Brussel, van Anton A. N.; et al.
- AN 1995:671648 HCAPLUS
- DN 123:79085
- L49 ANSWER 98 OF 204 MEDLINE ON STN DUPLICATE 36
- TI The molecular basis of the host specificity of the Rhizobium bacteria.
- SO Antonie van Leeuwenhoek, (1994) Vol. 65, No. 2, pp. 81-98. Ref: 49 Journal code: 0372625. ISSN: 0003-6072.
- AU Spaink H P
- AN 95070066 MEDLINE
- L49 ANSWER 99 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Large scale heterologous expression, purification and synthetic studies of an alpha-1,2-mannosyltransferase;

gene cloning in Escherichia coli for use in oligosaccharide and glycopeptide production (conference abstract)

- SO Abstr.Pap.Am.Chem.Soc.; (1994) 207 Meet., Pt.1, BIOT156 CODEN: ACSRAL
- AU Herrmann G F; Wong C H
- AN 1994-06460 BIOTECHDS
- L49 ANSWER 100 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

TI Sebum secretagogue;

prepared from malto-oligosaccharide e.g. maltotriose, maltotetraose or maltopentaose, which is prepared by partial starch hydrolysis using acid, amylase or alpha-amylase

- AN 1994-01419 BIOTECHDS
- PI JP 05294837 9 Nov 1993
- L49 ANSWER 101 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Production of bacteriostatic oligosaccharide

alginate for food preservative;

involves culturing an alginate-lyase-producing Vibrio sp in culture medium containing sodium alginate and isolating the antibiotic produced

- AN 1994-01571 BIOTECHDS
- PI JP 05252970 5 Oct 1993
- L49 ANSWER 102 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

- TI A method for the preparation of cello-oligosaccharide; cellulase pretreatment to remove beta-glucosidase activity
- AN 1993-10022 BIOTECHDS
- PI JP 05115293 14 May 1993
- L49 ANSWER 103 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Fermentation accelerators containing oligosaccharides for meat products and manufacture of meat products with them
- SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

- IN Shimamura, Seiichi; Tamura, Yoshitaka; Mizota, Teruhiko; Komuro, Akira
- AN 1993:515965 HCAPLUS
- DN 119:115965

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------|------|----------|-----------------|----------|
|    |             |      |          |                 |          |
| PI | JP 05103631 | Α    | 19930427 | JP 1991-269693  | 19911017 |
|    | JP 2885554  | B2   | 19990426 |                 |          |

- L49 ANSWER 104 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Chitin oligosaccharides, chitin, or its partial degradation products as bactericides and fungicides
- SO Jpn. Kokai Tokkyo Koho, 6 pp.
- CODEN: JKXXAF
  IN Shimai, Yoshuki; Tsukuda, Koji; Seino, Haruyoshi
- AN 1993:471245 HCAPLUS
- DN 119:71245

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------|------|----------|-----------------|----------|
|    |             |      |          |                 |          |
| ΡI | JP 05092926 | Α    | 19930416 | JP 1991-99878   | 19910201 |

- L49 ANSWER 105 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Production of brown algae decomposition prod. for oligosaccharide(s) production -
- by decomposing brown algae using enzymes produced by microorganisms belonging to genus Altermonas
- PI JP 05030988 A 19930209 (199311)\* JA 4[0] JP 3079183 B2 20000821 (200043) JA 5
- IN HIURA N; SATO R; TAKEDA T
- L49 ANSWER 106 OF 204 MEDLINE on STN DUPLICATE 39
- TI Lipo-oligosaccharides of Rhizobium induce infection-related early nodulin gene expression in pea root hairs.
- SO The Plant journal: for cell and molecular biology, (1993 Oct) Vol. 4, No. 4, pp. 727-33.

  Journal code: 9207397. ISSN: 0960-7412.
- AU Horvath B; Heidstra R; Lados M; Moerman M; Spaink H P; Prome J C; van Kammen A; Bisseling T
- AN 94073227 MEDLINE
- L49 ANSWER 107 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Structural analysis of two oligosaccharide bisphosphates isolated from the lipopolysaccharide of a recombinant strain of Escherichia coli F515 (Re chemotype) expressing the genus-specific epitope of Chlamydia lipopolysaccharide
- SO European Journal of Biochemistry (1993), 214(3), 703-10 CODEN: EJBCAI; ISSN: 0014-2956
- AU Holst, Otto; Broer, Wim; Thomas-Oates, Jane E.; Mamat, Uwe; Brade, Helmut
- AN 1993:535154 HCAPLUS
- DN 119:135154
- L49 ANSWER 108 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 40
- TI CONTROL OF THE EXPRESSION OF BACTERIAL GENES INVOLVED IN SYMBIOTIC NITROGEN-FIXATION
- SO WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, (JUL 1993) Vol. 9, No. 4,

pp. 444-454.

ISSN: 0959-3993.

- AU MEGIAS M (Reprint); FOLCH J L; SOUSA C
- AN 1993:433801 SCISEARCH
- L49 ANSWER 109 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 41
- TI RHIZOBIAL LIPO-OLIGOSACCHARIDE SIGNALS AND THEIR ROLE IN PLANT
  MORPHOGENESIS ARE ANALOGOUS LIPOPHILIC CHITIN DERIVATIVES PRODUCED BY
  THE PLANT
- SO AUSTRALIAN JOURNAL OF PLANT PHYSIOLOGY, (1993) Vol. 20, No. 4-5, pp. 381-392.

ISSN: 0310-7841.

- AU SPAINK H P (Reprint); WIJFJES A H M; VANVLIET T B; KIJNE J W; LUGTENBERG B
- AN 1993:639788 SCISEARCH
- L49 ANSWER 110 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Effects of biosynthetic polysaccharides and oligosaccharides on intestinal bacteria
- SO Shipin Kexue (Taipei) (1993), 20(2), 187-97 CODEN: SPKHE6; ISSN: 0253-8997
- AU Yang, Yaching; Tsiang, Fonglin; Chiu, Chihwei P.; Tsai, Chingmin E.
- AN 1995:281446 HCAPLUS
- DN 122:51001
- L49 ANSWER 111 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Noncellulolytic fungal beta-glucanases: their physiology and regulation; beta-glucanase occurrence, biosynthesis, mechanism of action, function, purification, characterization and potential applications; a review
- SO Enzyme Microb.Technol.; (1993) 15, 3, 178-92 CODEN: EMTED2
- AU Pitson S M; Seviour R J; McDougall B M AN 1993-04086 BIOTECHDS
- L49 ANSWER 112 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- Development of enzymes for chemoenzymatic synthesis; oligosaccharide and peptide preparation; characterization of enzyme-catalyzed reactions, enzyme gene cloning and enzyme engineering; a review (conference paper)
- SO Chimia; (1993) 47, 4, 127-32
- CODEN: CHIMAD
- AU Wong C H
- AN 1993-14752 BIOTECHDS
- L49 ANSWER 113 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Determination of the structures of three bacterial polysaccharides and synthesis and use of new spacers for glycoconjugate formation
- SO Chemical Communications (Stockholm University) (1993), (3), 32 pp. CODEN: CCUSBN; ISSN: 0366-5607
- AU Anderson, Mats
- AN 1993:581091 HCAPLUS
- DN 119:181091
- L49 ANSWER 114 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Development of functional food-materials utilizing enzymes and microorganisms. Development of technology producing oligosaccharides
- SO Kenkyu Hokoku Fukuoka-ken Kogyo Gijutsu Senta (1993), Volume Date 1992, 3, 7-12
  CODEN: KFKSEH; ISSN: 0916-8230
- AU Furuta, Masanori; Nomiyama, Syuji; Ohta, Shumei
- AN 1995:110922 HCAPLUS
- DN 122:54564

- L49 ANSWER 115 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Galacto-oligosaccharide and gluconic acid preparation;

from lactose using glucose-oxidase from Sterigmatomyces elviae, Sirobasidium mugnum, Rhodotorula minuta, etc.

- AN 1992-10996 BIOTECHDS
- PI JP 04144691 19 May 1992
- L49 ANSWER 116 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Increased utilization of fed substrates during microbial product biosynthesis
- SO Ger. (East), 9 pp. CODEN: GEXXA8
- IN Christner, Arnulf; Helmke, Claus; Mellinger, Uwe; Heinig, Klaus
- AN 1992:233908 HCAPLUS
- DN 116:233908

|    | PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|----|------------|------|----------|-----------------|----------|
|    |            |      |          |                 |          |
| ΡI | DD 298282  | A5   | 19920213 | DD 1988-323961  | 19881227 |

- L49 ANSWER 117 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Preparation of inulinase for preparation of inulo-oligosaccharide by culturing
  - inulinase producing microbe in culture medium producing enzyme having high end type activity
- PI JP 04190789 A 19920709 (199234) \* JA 4[0]
- IN FUKUOKA A; SATO K; TAKAHASHI S; TAMAYA H; WATANABE M; YOSHIMI F
- L49 ANSWER 118 OF 204 MEDLINE on STN DUPLICATE 43
- TI Isolation and characterization of Escherichia coli mutants blocked in production of membrane-derived oligosaccharides.
- SO Journal of bacteriology, (1992 Jul) Vol. 174, No. 14, pp. 4856-9. Journal code: 2985120R. ISSN: 0021-9193.
- AU Weissborn A C; Rumley M K; Kennedy E P
- AN 92325085 MEDLINE
- L49 ANSWER 119 OF 204 BIOTECHNO COPYRIGHT 2008 Elsevier Science B.V. on STN
- Mucin degradation in the human colon: Production of sialidase, sialate O-acetylesterase, N-acetylneuraminate lyase, arylesterase, and glycosulfatase activities by strains of fecal bacteria
- SO Infection and Immunity, (1992), 60/10 (3971-3978) CODEN: INFIBR ISSN: 0019-9567
- AU Corfield A.P.; Wagner S.A.; Clamp J.R.; Kriaris M.S.; Hoskins L.C.
- AN 1992:22297461 BIOTECHNO
- L49 ANSWER 120 OF 204 MEDLINE on STN DUPLICATE 44
- TI Rhizobial lipo-oligosaccharides: answers and questions.
- SO Plant molecular biology, (1992 Dec) Vol. 20, No. 5, pp. 977-86. Ref: 51 Journal code: 9106343. ISSN: 0167-4412.
- AU Spaink H P
- AN 93099248 MEDLINE
- L49 ANSWER 121 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Synthesis of oligosaccharides related to plant, vertebrate, and bacterial cell-wall glycans
- SO Carbohydrates (1992), 188-227. Editor(s): Ogura, Haruo; Hasegawa, Akira; Suami, Tetsuo. Publisher: Kodansha, Tokyo, Japan.
  CODEN: 60URAP
- AU Pozsgay, Vince
- AN 1995:336830 HCAPLUS
- DN 122:161053
- L49 ANSWER 122 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Oligosaccharides production from natural

- polysaccharides by microbial depolymerizing enzymes
- SO Kagaku to Seibutsu (1992), 30(3), 170-5 CODEN: KASEAA; ISSN: 0453-073X
- AU Tomita, Fusao; Yokota, Atsushi
- AN 1992:233785 HCAPLUS
- DN 116:233785
- L49 ANSWER 123 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Development of functional food materials utilizing enzymes and microorganisms. Characteristics of the enzyme for production of oligosaccharides
- SO Kenkyu Hokoku Fukuoka-ken Kogyo Gijutsu Senta (1992), Volume Date 1991, 2, 95-100 CODEN: KFKSEH; ISSN: 0916-8230
- AU Furuta, Masanori; Takada, Yasuyoshi; Suenaga, Hikaru; Ohta, Shumei
- AN 1993:624730 HCAPLUS
- DN 119:224730
- L49 ANSWER 124 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Cloning of Bacillus licheniformis amylase gene and its application to synthesis of branched oligosaccharides;
  - oligosaccharide preparation and starch liquefaction using panose-forming amylase and recombinant thermostable alpha-amylase expressed in Escherichia coli (conference paper)
- SO Biochem.Eng.2001; (1992) 80-83
- AU Park K H; Kim I C; Kim J R; Seo B C; Choi Y D; Lee D S
- AN 1993-04106 BIOTECHDS
- L49 ANSWER 125 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Isolation and characterization of alkalophilic bacteria that degrade soybean galactan;
  - galacto-oligosaccharide production using galactanase-producing Bacillus spp. isolated from soil
- SO Agric.Biol.Chem.; (1991) 55, 5, 1399-400
  - CODEN: ABCHA6
- AU Tsumura K; Hashimoto Y; Akiba T; Horikoshi K
- AN 1991-09587 BIOTECHDS
- L49 ANSWER 126 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 45
- TI STUDIES ON ENZYMATIC PRODUCTION OF OLIGOSACCHARIDES
  .6. MALTOTRIOSE-PRODUCING AMYLASE FROM MICROBACTERIUM
  -IMPERIALE
- SO AGRICULTURAL AND BIOLOGICAL CHEMISTRY, (MAR 1991) Vol. 55, No. 3, pp. 687-692.
  ISSN: 0002-1369.
- AU TAKASAKI Y (Reprint); KITAJIMA M; TSURUTA T; NONOGUCHI M; HAYASHI S; IMADA K
- AN 1991:218402 SCISEARCH
- L49 ANSWER 127 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 46
- TI EFFECT OF LIPOPOLYSACCHARIDE CORE SYNTHESIS MUTATIONS ON THE PRODUCTION OF VIBRIO-CHOLERAE O-ANTIGEN IN ESCHERICHIA-COLI K-12
- SO FEMS MICROBIOLOGY LETTERS, (15 AUG 1991) Vol. 82, No. 3, pp. 279-286. ISSN: 0378-1097.
- AU MORONA R (Reprint); BROWN M H; YEADON J; HEUZENROEDER M W; MANNING P A
- AN 1991:520863 SCISEARCH
- L49 ANSWER 128 OF 204 MEDLINE on STN
- TI Effect of lipopolysaccharide core synthesis mutations on the production of Vibrio cholerae O-antigen in Escherichia coli K-12.
- SO FEMS microbiology letters, (1991 Aug 15) Vol. 66, No. 3, pp. 279-85. Journal code: 7705721. ISSN: 0378-1097.
- AU Morona R; Brown M H; Yeadon J; Heuzenroeder M W; Manning P A

- L49 ANSWER 129 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Synthesis of fructan and oligosaccharides by microbial fructosyltransferases
- SO Denpun Kagaku (1991), 38(2), 217-22 CODEN: DPNKAV; ISSN: 0021-5406
- AU Iizuka, Masaru; Tanaka, Toshio; Yamamoto, Satoru; Yoneda, Yukio; Itokawa, Shigekazu; Hiyama, Masato; Ito, Kazuo; Furuichi, Kimiaki; Minamiura, Noshi; Yamamoto, Takehiko
- AN 1991:678091 HCAPLUS
- DN 115:278091
- L49 ANSWER 130 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Degradation and utilization of xylan by a genetically modified Bacteroides thetaiotaomicron and in combination with selected ruminal bacteria;

Bacteroides ruminicola recombinant endo-1,4-beta-D-xylanase production; hemicellulose, xylan hydrolysis, xylo-oligosaccharide end-product utilization by rumen bacterium (conference abstract)

- SO Abstr.Gen.Meet.Am.Soc.Microbiol.; (1991) 91 Meet., 202
- AU Cotta M A; Whitehead T R
- AN 1991-11885 BIOTECHDS
- L49 ANSWER 131 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Apparatus for producing immobilized cell;
  cell immobilization apparatus for cell mixing with support and
  pressurized injection through needle for bead formation; potential
  application fructo-oligosaccharide production
- AN 1991-15095 BIOTECHDS
- PI KR 9005528 31 Jul 1990
- L49 ANSWER 132 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Galacto-oligosaccharide production by allowing microbe of Rhodotorula, sterigmatomyces or sirobasidium to act on lactose to generate galacto-oligo-saccharide and extracting it
- PI JP 02072890 A 19900313 (199016) \* JA JP 2600874 B2 19970416 (199720) JA 3[0]
- IN ONISHI I; YOKOZEKI K
- L49 ANSWER 133, OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
- TI SYNTHESIS OF OLIGOSACCHARIDES RELATED TO BACTERIAL O-ANTIGENS.
- Top. Curr. Chem., (1990) pp. 1-38. THIEM, J. (ED.). TOPICS IN CURRENT CHEMISTRY, VOL. 154. CARBOHYDRATE CHEMISTRY. VII+334P. SPRINGER-VERLAG: BERLIN, WEST GERMANY; NEW YORK, NEW YORK, USA. ILLUS. Publisher: Series: Topics in Current Chemistry. CODEN: TPCCAQ. ISSN: 0340-1022. ISBN: 3-540-51576-3, 0-387-51576-3.
- AU BUNDLE D R [Reprint author]
- AN 1990:401311 BIOSIS
- L49 ANSWER 134 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Cloning and expression in Escherichia coli of a Haemophilus influenzae type b lipooligosaccharide synthesis gene(s) that encodes a 2-keto-3-deoxyoctulosonic acid epitope
- SO Infection and Immunity (1990), 58(6), 1558-64 CODEN: INFIBR; ISSN: 0019-9567
- AU Spinola, Stanley M.; Kwaik, Yousef Abu; Lesse, Alan J.; Campagnari, Anthony A.; Apicella, Michael A.
- AN 1990:527265 HCAPLUS
- DN 113:127265
- L49 ANSWER 135 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

- TI Synthesis of oligosaccharides by use of microbial enzymes
- SO Denpun Kagaku (1990), 37(2), 59-67 CODEN: DPNKAV; ISSN: 0021-5406
- AU Kitahata, Sumio
- AN 1990:570336 HCAPLUS
- DN 113:170336
- L49 ANSWER 136 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Biotechnological and chemical routes to intermediate synthesis products from sucrose
- SO Zuckerindustrie (Berlin, Germany) (1990), 115(1), 20-4 CODEN: ZUCKDI; ISSN: 0344-8657
- AU Buchholz, Klaus; Kunz, Markwart
- AN 1990:404553 HCAPLUS
- DN 113:4553
- L49 ANSWER 137 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 47
- TI SYNTHESIS OF OLIGOSACCHARIDES RELATED TO
- BACTERIAL O-ANTIGENS
- SO TOPICS IN CURRENT CHEMISTRY, (1990) Vol. 154, pp. 1-37. ISSN: 0342-6793.
- AU BUNDLE D R (Reprint)
- AN 1990:480250 SCISEARCH
- L49 ANSWER 138 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 48
- TI Plant culture with growth accelerators prepared from polysaccharides of microbial cultures
- SO Jpn. Kokai Tokkyo Koho, 14 pp.
- CODEN: JKXXAF
- IN Adachi, Takashi; Ishii, Takafumi; Hidaka, Hidemasa
- AN 1990:72298 HCAPLUS
- DN 112:72298

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------|------|----------|-----------------|----------|
|    |             |      |          |                 |          |
| ΡI | JP 01079101 | Α    | 19890324 | JP 1987-234755  | 19870921 |
|    | JP 07106966 | В    | 19951115 |                 |          |

- L49 ANSWER 139 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Production of oligosaccharide using dextransucrase producer bacteria e.g. Streptococcus bovis; culture medium effect
- AN 1989-12709 BIOTECHDS
- PI JP 01148195 9 Jun 1989
- L49 ANSWER 140 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Enzymatic production of cello:oligosaccharide involves removing inhibition of prod. using ultrafiltration of culture medium containing Celluibrio microorganism
- PI JP 01256394 A 19891012 (198947)\* JA 4[0]
  - US 4908311 A 19900313 (199016) EN
  - JP 05083238 B 19931125 (199350) JA 3
- IN KAINUMA K; SASAKI T; TANIGUCHI H
- L49 ANSWER 141 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Enzymic preparation of N-acetyl:chito-oligosaccharide by culturing microbe of trichoderma which produces chitinase, etc.
- PI JP 01174383 A 19890710 (198933)\* JA 7[0] JP 07089922 B2 19951004 (199544) JA 5[0]
- IN HAGINO H; USUI Y
- L49 ANSWER 142 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
- TI MECHANISMS INVOLVED IN WOUND HEALING D GLUCOSE POLYSACCHARIDE ACTION.

- SO FASEB Journal, (1989) Vol. 3, No. 4, pp. A1251.
  Meeting Info.: 73RD ANNUAL MEETING OF THE FEDERATION OF AMERICAN SOCIETIES
  FOR EXPERIMENTAL BIOLOGY, NEW ORLEANS, LOUISIANA, USA, MARCH 19-23, 1989.
  FASEB (FED AM SOC EXP BIOL) J.
  CODEN: FAJOEC. ISSN: 0892-6638.
- AU SILVETTI A N [Reprint author]
- AN 1989:324650 BIOSIS
- L49 ANSWER 143 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Production of galactooligosaccharides by microbial enzymes
- SO Kagaku to Kogyo (Osaka, Japan) (1989), 63(10), 407-15 CODEN: KKGOAG; ISSN: 0368-5918
- AU Nakano, Hirofumi
- AN 1990:34334 HCAPLUS
- DN 112:34334
- L49 ANSWER 144 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Synthesis of oligosaccharides by microbial
- SO .Kagaku to Kogyo (Osaka, Japan) (1989), 63(4), 161-9 CODEN: KKGOAG; ISSN: 0368-5918
- AU Kitahata, Sumio
- AN 1989:493061 HCAPLUS
- DN 111:93061
- L49 ANSWER 145 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN
- TI MICROBIAL ENZYMES THAT PRODUCE SPECIFIC OLIGOSACCHARIDES
- SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (10 SEP 1989) Vol. 198, pp. 42-CARB.
  ISSN: 0065-7727.
- AU PRIEST F G
- AN 1990:347649 SCISEARCH
- L49 ANSWER 146 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Application of soybean oligosaccharides
- SO New Food Industry (1989), 31(6), 33-8 CODEN: NYFIAM; ISSN: 0547-0277
- AU Kawaquchi, Hiroshi
- AN 1989:532648 HCAPLUS
- DN 111:132648
- L49 ANSWER 147 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Microbial enzymes that produce specific oligosaccharides;
  - oligosaccharide preparation by starch saccharification (conference abstract)
- SO Abstr.Pap.Am.Chem.Soc.; (1989) 198 Meet., CARB42 CODEN: ACSRAL
- AU Priest F G
- AN 1990-00411 BIOTECHDS
- L49 ANSWER 148 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Malto-oligosaccharide-forming amylase production by culturing Bacillus bacteria producing amylase and recovering malto-oligosaccharide
- PI JP 63237786 A 19881004 (198845) \* JA 9[5] JP 2559400 B2 19961204 (199702) JA 7[0]
- IN ISHII Y; KIMURA K; TSUJIOKA K
- L49 ANSWER 149 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Lactic acid bacteria breeding accelerator contains chitosan oligosaccharide, and is useful for production of dairy products
- PI JP 63098379 A 19880428 (198823) \* JA 9[8]

- JP 04063674 B 19921012 (199245) JA 9
- IN IZUME M; TAIHO A; UCHIDA Y
- L49 ANSWER 150 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Gene relating to malto-oligo saccharide and corresp. recombinant plasmid and recombinant microorganism
- PI JP 63049082 A 19880301 (198814) \* JA 13[8] JP 07014346 B2 19950222 (199512) JA 14
- IN ISHII Y; KIMURA K; SUZUKI S; TSUKAMOTO A; YAMANE K
- L49 ANSWER 151 OF 204 MEDLINE on STN DUPLICATE 50
- TI Degradation of human intestinal glycosphingolipids by extracellular glycosidases from mucin-degrading bacteria of the human fecal flora.
- SO The Journal of biological chemistry, (1988 Aug 5) Vol. 263, No. 22, pp. 10790-8.
  - Journal code: 2985121R. ISSN: 0021-9258.
- AU Larson G; Falk P; Hoskins L C
- AN 88273201 MEDLINE
- L49 ANSWER 152 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Selection of microorganisms which produce raw-starch degrading enzymes; isolation of Bacillus, Aspergillus and Hansenula spp. producing alpha-amylase and/or glucoamylase
- SO Appl.Microbiol.Biotechnol.; (1988) 27, 5-6, 443-46
- CODEN: EJABDD
- AU Bergmann F W; Abe J; Hizukuri S
- AN 1988-07243 BIOTECHDS
- L49 ANSWER 153 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Transglycosylase and hydrolase activities of carbohydrases;
- e.g. lysozyme, alpha-amylase, dextranase and glucoamylase; a review
- SO Prikl.Biokhim.Mikrobiol.; (1988) 24, 3, 291-304
- CODEN: PBMIAK
- AU Maksimov V I
- AN 1988-08210 BIOTECHDS
- L49 ANSWER 154 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Synthesis of functional oligosaccharides by microbial enzymes
- SO Gekkan Fudo Kemikaru (1988), 4(6), 70-4 CODEN: GFKEEX; ISSN: 0911-2286
- AU Kitahata, Sumio
- AN 1988:547881 HCAPLUS
- DN 109:147881
- L49 ANSWER 155 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 52
- TI SPECTROSCOPIC ANALYSIS OF THE OLIGOSACCHARIDES PRODUCED BY BACTERIOPHAGE-BORNE ENZYME ACTION ON KLEBSIELLA-K36 POLYSACCHARIDE
- SO SOUTH AFRICAN JOURNAL OF CHEMISTRY, (JUN 1988) Vol. 41, No. 2, pp. 42-47. ISSN: 0379-4350.
- AU RAVENSCROFT N (Reprint); JACKSON G E; JOAO H; STEPHEN A M
- AN 1988:403205 SCISEARCH
- L49 ANSWER 156 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI The identification of lipopolysaccharide producing microorganisms; hybridoma construction for monoclonal antibody secretion, application for Gram-negative bacterium detection
- AN 1987-11961 BIOTECHDS
- PI US 4683196 28 Jul 1987
- L49 ANSWER 157 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Foliar liquid fertilizers from wastewaters
- SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

- AN 1990:6719 HCAPLUS
- DN 112:6719

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 62283906 A 19871209 JP 1986-124865 19860530

- L49 ANSWER 158 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Manufacture of chondroitinsulfuric acid hydrolysates by immobilized bacteria
- SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

- IN Kimura, Hikari; Murata, Kosaku; Nonaka, Michio; Sato, Nobuyuki
- AN 1987:552866 HCAPLUS
- DN 107:152866

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------|------|----------|-----------------|----------|
|    |             |      |          |                 |          |
| ΡI | JP 62130696 | A    | 19870612 | JP 1985-270745  | 19851203 |
|    | JP 05058716 | В    | 19930827 |                 |          |

- L49 ANSWER 159 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Malto:pentose preparation by acid hydrolysis of cyclodextrin then treatment with amylase derived from Bacillus spp.
- PI JP 62208294 A 19870912 (198742)\* JA 4[0]
- IN YAZAKI A
- L49 ANSWER 160 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI The synthesis of the heptose region of the gram-negative bacterial core oligosaccharides
- SO Tetrahedron Letters (1987), 28(14), 1569-72 CODEN: TELEAY; ISSN: 0040-4039
- AU Dziewiszek, Krzysztof; Banaszek, Anna; Zamojski, Aleksander
- AN 1987:637165 HCAPLUS
- DN 107:237165
- L49 ANSWER 161 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 53
- TI METHYLATION ANALYSIS OF THE OLIGOSACCHARIDES PRODUCED BY BACTERIOPHAGE-BORNE ENZYME ACTION ON KLEBSIELLA K-36 POLYSACCHARIDE
- SO SOUTH AFRICAN JOURNAL OF SCIENCE, (SEP 1987) Vol. 83, No. 9, pp. 560-560. ISSN: 0038-2353.
- AU DUTTON G G S (Reprint); MACKIE K L; MERRIFIELD E H; RAVENSCROFT N; STEPHEN A M
- AN 1987:635651 SCISEARCH
- L49 ANSWER 162 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Commercial polysaccharides: recent trends and developments; polysaccharide production; a review (conference paper)
- SO Prog. Biotechnol.; (1987) 3, 311-35
- AU Yalpani M; Sandford P A
- AN 1989-00990 BIOTECHDS
- L49 ANSWER 163 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI A novel lyase acting on gellan gum;
  - produced by Pseudomonas elodea, enzyme characterization (conference abstract)
- SO Eur.Congr.Biotechnol.; (1987) Vol.2, 176
- AU Schmedding D J M; van den Dool R T M; Kerkenaar A
- AN 1989-07786 BIOTECHDS
- L49 ANSWER 164 OF 204 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 54
- TI The identification of oral microbial lectins by cell affinity chromatography.
- SO FEMS MICROBIOL. LETT., (1987) vol. 40, no. 1, pp. 123-127.

- AU Murray, P.A.; Materese, V.; Hoover, C.I.; Winkler, J.R.
- AN 87:69325 LIFESCI
- L49 ANSWER 165 OF 204 MEDLINE on STN DUPLICATE 55
- TI Genetic and biochemical analysis of Shigella dysenteriae 1 O antigen polysaccharide biosynthesis in Escherichia coli K-12: 9 kb plasmid of S. dysenteriae 1 determines addition of a galactose residue to the lipopolysaccharide core.
- SO Microbial pathogenesis, (1986 Jun) Vol. 1, No. 3, pp. 299-306. Journal code: 8606191. ISSN: 0882-4010.
- AU Sturm S; Jann B; Jann K; Fortnagel P; Timmis K N
- AN 89237814 MEDLINE
- L49 ANSWER 166 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI A method for producing fructo-oligosaccharide by immobilized microorganism;

sucrose conversion to inulin-type compounds using immobilized Aureobasidium sp.

- AN 1985-06600 BIOTECHDS
- PI JP 60041497 5 Mar 1985
- L49 ANSWER 167 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- TI Fructo-oligosaccharide production by fermentation with an Aureobasidium microorganism
- PI JP 60027395 A 19850212 (198512) \* JA 11[9] JP 05004071 B 19930119 (199306) JA 13
- IN SHINOHARA S; UENO H
- L49 ANSWER 168 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 57
- TI FORMATION OF OLIGOSACCHARIDES DURING HYDROLYSIS OF LACTOSE IN MILK USING BETA GALACTOSIDASE FROM BACILLUS-CIRCULANS.
- SO Journal of Food Science, (1985) Vol. 50, No. 6, pp. 1602-1606. CODEN: JFDSAZ. ISSN: 0022-1147.
- AU MOZAFFAR Z [Reprint author]; NAKANISHI K; MATSUNO R
- AN 1986:131857 BIOSIS
- L49 ANSWER 169 OF 204 MEDLINE on STN DUPLICATE 58
- TI Mutant of Escherichia coli deficient in osmoregulation of periplasmic oligosaccharide synthesis.
- SO Journal of bacteriology, (1985 Mar) Vol. 161, No. 3, pp. 1049-53. Journal code: 2985120R. ISSN: 0021-9193.
- AU Clark D P
- AN 85130782 MEDLINE
- L49 ANSWER 170 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Novel oligosaccharides obtained by bacteriophage degradation of the polysaccharide from Klebsiella serotype K26
- SO Carbohydrate Research (1985), 144(2), 251-62 CODEN: CRBRAT; ISSN: 0008-6215
- AU Di Fabio, Jose L.; Karunaratne, D. Nedra; Dutton, Guy G. S.
- AN 1986:497844 HCAPLUS
- DN 105:97844
- L49 ANSWER 171 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Gelling agent of non-branched polygalactan and metallic oxides; especially aluminum silicon and titanium oxides is used to replace agar in microorganism culture medium
- AN 1984-11500 BIOTECHDS
- PI EP 118376 12 Sep 1984
- L49 ANSWER 172 OF 204 MEDLINE on STN DUPLICATE 59
- TI Regulation of the synthesis of membrane-derived oligosaccharides in Escherichia coli. Assay of phosphoglycerol transferase I in vivo.

- SO The Journal of biological chemistry, (1984 Jul 10) Vol. 259, No. 13, pp. 8388-93.
  - Journal code: 2985121R. ISSN: 0021-9258.
- AU Bohin J P; Kennedy E P
- AN 84239819 MEDLINE
- L49 ANSWER 173 OF 204 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 60
- TI SYNTHESIS OF MORAPRENYL PYROPHOSPHATE OLIGOSACCHARIDES
   POSSIBLE BIOSYNTHETIC PRECURSORS OF ESCHERICHIA-COLI 08 AND 09
  O-ANTIGENS
- SO BIOORGANICHESKAYA KHIMIYA, (1984) Vol. 10, No. 7, pp. 946-953. ISSN: 0132-3423.
- AU TORGOV V I (Reprint); SHIBAEV V N; KOCHETKOV N K
- AN 1984:520303 SCISEARCH
- L49 ANSWER 174 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Synthesis of repeating units of Escherichia coli capsular polysaccharides containing D-ribose and 3-deoxy-D-manno-2-octulosonic acid (KDO)
- SO Carbohydrate Research (1984), 132(2), 261-74 CODEN: CRBRAT; ISSN: 0008-6215
- AU Kosma, Paul; Schulz, Gerhard; Unger, Frank M.
- AN 1985:62532 HCAPLUS
- DN 102:62532
- OREF 102:9825a,9828a
- L49 ANSWER 175 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Mucin degradation by enteric bacteria: ecological aspects and implications for bacterial attachment to gut mucosa
- SO Attachment Org. Gut Mucosa, [Pap. Res. Workshop] (1984), Volume 2, 51-67. Editor(s): Boedeker, Edgar C. Publisher: CRC, Boca Raton, Fla. CODEN: 52SOA7
- AU Hoskins, Lansing C.
- AN 1985:594094 HCAPLUS
- DN 103:194094
- OREF 103:31237a,31240a
- L49 ANSWER 176 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN
- Oligosaccharide preparation by treating starch, amylase or amylopectin (hydrolysate) with amylase obtd. from Bacillus e.g. circulans G 4,5 FERM p-6237
- PI JP 58170492 A 19831007 (198346)\* JA 7[0] JP 59004119 B 19840127 (198408) JA
- IN TAKASAKI Y
- L49 ANSWER 177 OF 204 MEDLINE on STN DUPLICATE 61
- TI Appearance of monoglyceride and triglyceride in the cell envelope of Escherichia coli mutants defective in diglyceride kinase.
- SO The Journal of biological chemistry, (1983 Jul 10) Vol. 258, No. 13, pp. 8068-73.
  - Journal code: 2985121R. ISSN: 0021-9258.
- AU Rotering H; Raetz C R
- AN 83238407 MEDLINE
- L49 ANSWER 178 OF 204 MEDLINE on STN DUPLICATE 62
- TI Structure of the core regions in lipopolysaccharides from Escherichia coli K12 W2252-11U-, the Ter-15 mutant, and Ter-15 (F'-lac) and Ter-15 (F+)
- SO Biochimica et biophysica acta, (1983 Apr 20) Vol. 756, No. 3, pp. 335-40. Journal code: 0217513. ISSN: 0006-3002.
- AU Ohkawa T
- AN 83153817 MEDLINE
- L49 ANSWER 179 OF 204 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
- TI Saccharides as physiologically active hypoglycemic (antidiabetic) agents;

derived from microbially-produced polysaccharides and oligosaccharides 1982-03991 BIOTECHDS AN JP 57146713 10 Sep 1982 PΤ ANSWER 180 OF 204 WPIDS COPYRIGHT 2008 THE THOMSON CORP on STN L49 Solubilisation, modification and hydrolysis of carbohydrate(s) - by ΤI treatment with aqueous acid and magnesium, calcium or lithium salt A 19820127 (198205) \* EN 51 PΙ R: AT CH DE FR GB LI SE NO 8102358 A 19820208 (198209) NO PT A 19820330 (198215) BR 8104434 · JA JP 57048997 A 19820320 (198217) ZA 8104472 EN A 19820705 (198238) EN B 19850821 (198534) EP 44622 R: AT CH DE FR GB LI SE CA 1192541 A 19850827 (198539)# EN G 19850926 (198540) DE DE 3171911 SU 1318171 A 19870615 (198805) RU US 4713118 A 19871215 (198806) EN EN US 4787939 A 19881129 (198850) JP 01033113 B 19890711 (198931) JA IN BARKER S A; SOMERS P J L49 ANSWER 181 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN Enzyme mixtures for production of oligosaccharides TIJpn. Kokai Tokkyo Koho, 6 pp. SO CODEN: JKXXAF AN 1981:478483 HCAPLUS DN 95:78483 OREF 95:13291a,13294a KIND DATE APPLICATION NO. DATE PATENT NO. \_\_\_\_\_ \_\_\_\_\_\_ ------JP 56051982 19810509 JP 1979-127979 19791005 PΙ Α L49 ANSWER 182 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on DUPLICATE 63 COMPARATIVE STUDY OF HOST CAPSULE DEPOLYMERASES ASSOCIATED WITH KLEBSIELLA TI BACTERIO PHAGES. SO Virology, (1981) Vol. 113, No. 1, pp. 363-378. CODEN: VIRLAX. ISSN: 0042-6822. ΑU RIEGER-HUG D [Reprint author]; STIRM S AN 1982:154584 BIOSIS COPYRIGHT 2008 CSA on STN L49 ANSWER 183 OF 204 LIFESCI Comparative Study of Host Capsule Depolymerases Associated With Klebsiella тT Bacteriophages. SO VIROLOGY., (1981) vol. 113, no. 1, pp. 363-378. ΑU Stirm, S.; Rieger-Hug, D. AN 81:33613 LIFESCI L49 ANSWER 184 OF 204 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights reserved on STN Comparative study of host capsule depolymerases associated with Klebsiella bacteriophages. Behavioural Brain Research, (1981) Vol. 3, No. 2, pp. 363-378. SO ISSN: 0166-4328 CODEN: BBREDI ΑU Rieger-Hug D.; Stirm S. AN 1981201970 EMBASE L49 ANSWER 185 OF 204 MEDLINE on STN **DUPLICATE 64** Synthesis of 2-methyl-[2-acetamido-4-0-acetyl-6-0-benzyl-3-0-(2-butenyl)-1,2-dideoxy-alpha-D -glucopyrano]-[2,1-d]-2-oxazoline, a versatile intermediate for the synthesis of complex

oligosaccharides of bacterial cell-wall, human milk, and

```
blood-group substances.
     Carbohydrate research, (1981 Mar 2) Vol. 89, No. 2, pp. 279-88. Journal code: 0043535. ISSN: 0008-6215.
SO
ΑIJ
     Durette P L; Meitzner E P
     81210068
                  MEDLINE
AN
     ANSWER 186 OF 204
                           MEDLINE on STN
                                                         DUPLICATE 65
T.49
     Mucin degradation in human colon ecosystems. Evidence for the existence
TI
     and role of bacterial subpopulations producing glycosidases as
     extracellular enzymes.
SO
     The Journal of clinical investigation, (1981 Jan) Vol. 67, No. 1, pp.
     163-72.
     Journal code: 7802877. ISSN: 0021-9738.
     Hoskins L C; Boulding E T
ΑU
AN
     81094427
                  MEDLINE
     ANSWER 187 OF 204 WPIDS COPYRIGHT 2008
                                                    THE THOMSON CORP on STN
L49
ΤI
     Galactose-containing oligosaccharide A preparation - by cultivating suitable
     microorganism of genus Bacillus
PΤ
     JP 55108887 A 19800821 (198040)* JA
                     B 19811107 (198149) JA
     JP 56047190
     KATO T; SAWAZAKI T
IN
L49
     ANSWER 188 OF 204 WPIDS COPYRIGHT 2008
                                                    THE THOMSON CORP on STN
     Bifido:bacterium multiplication-promoting agent - containing oligosaccharide
ТT
     prepared by treating lactose with beta-glucosidase produced by Aspergillus
     oryzae
PΙ
     JP 55104885
                     A 19800811 (198039) * JA
     GB 2080330
                     A 19820203 (198205)# EN.
     DE 3027731
                     A 19820204 (198206)# DE
     FR 2488137
                     A 19820212 (198211)# FR
     NL 8004210
                     A 19820216 (198211)# NL
     BR 8004937
                     A 19820406 (198216)# PT
     DE 3027731
                     C 19820722 (198230)# DE
     JP 58020266
                     B 19830422 (198320) JA
     US 4435389
                    A 19840306 (198412)# EN
     CA 1165706
                     A 19840417 (198420)# EN
     GB 2080330
                     B 19841003 (198440)# EN
                    B 19850305 (198515) JA
     JP 35041449
                    A 19850430 (198521)# DE
     CH 649002
     KR 8600065
                     A 19860206 (198640) KO
     NL 181115
                     B 19870116 (198706)# NL
     JP 63018457
                     B 19880419 (198819) JA
     IT 1141607
                     B 19861001 (198826) IT
IN
     KAMIYAMA S; KURODA A; MATSUMOTO K; MUTAI M; TAKAHASHI T; TANAKA R;
     TERAJIMA T; TERASHIMA T; UEYAMA S
L49
     ANSWER 189 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
     Synthesis of \alpha-L-Rhap-(1 \rightarrow 3)-L-Rha and \alpha-L-Rhap-(1
     \rightarrow 3)-\alpha-L-Rhap-(1 \rightarrow 3)-L-Rha building stones of
     bacterial polysaccharides
     Symp. Pap. - IUPAC Int. Symp. Chem. Nat. Prod., 11th (1978), Volume 3,
SO
     73-6
     CODEN: 41RTAX
ΑU
     Pozsgay, Vince; Nanasi, Pal
AN
     1980:42276 HCAPLUS
DN
     92:42276
OREF 92:7065a,7068a
     ANSWER 190 OF 204
L49
                           MEDLINE on STN
                                                         DUPLICATE 66
     Relation of turnover of membrane phospholipids to synthesis of
     membrane-derived oligosaccharides of Escherichia coli.
SO
     The Journal of biological chemistry, (1977 Jun 25) Vol. 252, No. 12, pp.
     4250-5.
     Journal code: 2985121R. ISSN: 0021-9258.
```

```
AU Schulman H; Kennedy E P
```

AN 77187939 MEDLINE

L49 ANSWER 191 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

TI ANTIGEN DEGRADATION IN HUMAN COLON ECOSYSTEMS HOSTS ABO BLOOD TYPE INFLUENCES ENTERIC BACTERIAL DEGRADATION OF A CELL SURFACE ANTIGEN ON ESCHERICHIA-COLI 0-86.

SO Gastroenterology, (1977) Vol. 73, No. 1, pp. 37-41. CODEN: GASTAB. ISSN: 0016-5085.

AU CROMWELL C L [Reprint author]; HOSKINS L C

AN 1978:140610 BIOSIS

L49 ANSWER 192 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Oligosaccharides

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

IN Okada, Shigetaka; Tsuyama, Naoto; Mitsuhashi, Masakazu; Ogasawara, Junsuke

AN 1974:131677 HCAPLUS

DN 80:131677

OREF 80:21245a,21248a

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------|------|----------|-----------------|----------|
|    |             |      |          |                 |          |
| ΡI | JP 48098093 | Α    | 19731213 | JP 1972-31619   | 19720331 |
|    | JP 56004238 | В    | 19810129 |                 |          |

L49 ANSWER 193 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Interference with bacterial cell wall synthesis by oligosaccharide antibiotics

SO Bollettino - Societa Italiana di Biologia Sperimentale (1970), 46(5), 233-7

CODEN: BSIBAC; ISSN: 0037-8771

AU Bertazzoni, E.; Berti, Tito

AN 1970:506481 HCAPLUS

DN 73:106481

OREF 73:17327a,17332a

L49 ANSWER 194 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

II In vitro synthesis of oligosaccharides by three "fruit rot" fungi

SO Proceedings - Indian Academy of Sciences, Section B (1970), 71(4), 171-6 CODEN: PISBAA; ISSN: 0370-0097

AU Kapoor, I. J.; Tandon, Ram N.

AN 1970:484877 HCAPLUS

DN 73:84877

OREF 73:13859a,13862a

- L49 ANSWER 195 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Decomposition products of enzymic starch hydrolysis

Proceedings of the Annual Congress - South African Sugar Technologists' Association (1970), 44, 94-7 CODEN: PSATAA; ISSN: 0373-045X

AU Bruijn, J.

AN 1971:553165 HCAPLUS

DN 75:153165

OREF 75:24153a,24156a

L49 ANSWER 196 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Synthesis of oligosaccharides by growing culture of Leuconostoc mesenteroides. IV. Oligosaccharide formation in the presence of various types of glucobioses as acceptors

SO Agricultural and Biological Chemistry (1969), 33(9), 1295-300 CODEN: ABCHA6; ISSN: 0002-1369

AU Yamauchi, Fumio; Ohwada, Yhuji

AN 1969:488712 HCAPLUS

DN 71:88712

- ANSWER 197 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN L49
- Quantitative chromatography of homologous glucose oligomers and other saccharides using polyacrylamide gel
- Journal of Chromatography (1969), 42(4), 476-84 SO CODEN: JOCRAM; ISSN: 0021-9673 John, Michael; Trenel, Goetz; Dellweg, Hanswerner
- ΑU
- AN 1969:488266 HCAPLUS
- DN 71:88266
- OREF 71:16409a,16412a
- **DUPLICATE 67** ANSWER 198 OF 204 MEDLINE on STN L49
- ΤI Novel heparin degradation products. Isolation and characterization of novel disaccharides and oligosaccharides produced from heparin by bacterial degradation.
- The Biochemical journal, (1968 Jul) Vol. 108, No. 4, pp. 647-54. Journal code: 2984726R. ISSN: 0264-6021. SO
- Dietrich C P ΔIJ
- 68361894 MEDLINE ΔN
- ANSWER 199 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN L49
- Fundamental processes in the synthesis of oligo- and polysaccharides by ΤT microorganisms. I. Synthesis of oligosaccharides . II. Synthesis of polysaccharides
- Mikrobiol. Zh., Akad. Nauk Ukr. RSR (1961), 23 (No. 4; No. 5), 58-62;65-70 SO
- ΑU Novikova, S. I.
- 1962:68895 HCAPLUS AN
- DN 56:68895
- OREF 56:13329h-i
- ANSWER 200 OF 204 HCAPLUS COPYRIGHT 2008 ACS on STN L49
- Synthesis of oligosaccharides by microbial TI enzymes
- SO (1960) 44 pp. Avail.: Univ. Microfilms (Ann Arbor, Mich.), Order No. 60-4506
  - From: Dissertation Abstr. 21, 1333
- Marsh, Jean M. AU
- 1961:28400 HCAPLUS AN
- DN 55:28400
- OREF 55:5643d-e
- ANSWER 201 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on
- ΤI The synthesis of oligosaccharides by microbial enzymes.
- SO DISSERTATION ABSTS, (1960) Vol. 21, No. 6, pp. 1333.
- ΑU MARSH, JEAN MARIE
- 1961:27665 BIOSIS ΑN
- **DUPLICATE 68** L49 ANSWER 202 OF 204 MEDLINE on STN
- ΤI Carbohydrate metabolism of coli group bacteria. IV. Oligosaccharide synthesis from sucrose by Esch. coli var. communior.
- SO Japanese journal of medical science & biology, (1954 Feb) Vol. 7, No. 1, pp. 1-13. Journal code: 0243706. ISSN: 0021-5112.
- ΑU MOROOKA N
- AN 55022750 MEDLINE
- ANSWER 203 OF 204 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on L49 **DUPLICATE 69**
- TI The oligosaccharides synthesised from maltose by Escherichia coli.
- JOUR CHEM SOC [LONDON], (1952) Vol. 1952, No. 1, pp. 209-215. SO

```
ΑU
     BARKER, S. A.; BOURNE, E. J.
AN
     1952:28355 BIOSIS
                                                         DUPLICATE 70
L49 ANSWER 204 OF 204
                         MEDLINE on STN
     The oligosaccharides synthesized by Escherichia
TΙ
     coli from maltose.
     The Biochemical journal, (1951 Sep) Vol. 49, No. 4, pp. lxi.
SO
     Journal code: 2984726R. ISSN: 0264-6021.
     BARKER S A; BOURNE E J
AU
                 MEDLINE
     52016452
AN
=> s lactose permease or lacy or lac(w)y
FILE 'MEDLINE'
         16884 LACTOSE
          2832 PERMEASE
           620 LACTOSE PERMEASE
                 (LACTOSE (W) PERMEASE)
           790 LACY
         11412 LAC
        163411 Y
            30 LAC(W) Y
L50
           891 LACTOSE PERMEASE OR LACY OR LAC(W)Y
FILE 'SCISEARCH'
         14948 LACTOSE
          3378 PERMEASE
           755 LACTOSE PERMEASE
                 (LACTOSE (W) PERMEASE)
           317 LACY
          8618 LAC
        183185 Y
             8 LAC(W)Y
L51
           989 LACTOSE PERMEASE OR LACY OR LAC(W)Y
FILE 'LIFESCI'
          4626 "LACTOSE"
          1774 "PERMEASE"
           274 LACTOSE PERMEASE
                 ("LACTOSE" (W) "PERMEASE")
           153 LACY
          4029 LAC
         36738 Y
            17 LAC(W)Y
L52
           385 LACTOSE PERMEASE OR LACY OR LAC(W)Y
FILE 'BIOTECHDS'
          3729 LACTOSE
           247 PERMEASE
            39 LACTOSE PERMEASE
                 (LACTOSE (W) PERMEASE)
            37 LACY
          1934 LAC
          6231 Y
            5 LAC(W)Y
L53
            74 LACTOSE PERMEASE OR LACY OR LAC(W)Y
FILE 'BIOSIS'
         24146 LACTOSE
          3542 PERMEASE
           526 LACTOSE PERMEASE
                 (LACTOSE (W) PERMEASE)
           437 LACY
         10002 LAC
        131845 Y
```

```
62 LAC(W) Y
L54
           896 LACTOSE PERMEASE OR LACY OR LAC(W) Y
FILE 'EMBASE'
         14935 "LACTOSE"
          2360 "PERMEASE"
           478 LACTOSE PERMEASE
                  ("LACTOSE" (W) "PERMEASE")
           306 LACY
          5327 LAC
        123114 Y
            22 LAC(W) Y
           701 LACTOSE PERMEASE OR LACY OR LAC(W)Y
L55
FILE 'HCAPLUS'
         56371 LACTOSE
          3618 PERMEASE
           556 LACTOSE PERMEASE
                  (LACTOSE (W) PERMEASE)
           501 LACY
         11754 LAC
        344142 Y
            22 LAC(W) Y
L56
           938 LACTOSE PERMEASE OR LACY OR LAC(W)Y
FILE 'NTIS'
           219 LACTOSE
            12 PERMEASE
             1 LACTOSE PERMEASE
                  (LACTOSE (W) PERMEASE)
            15 LACY
           545 LAC
         15331 Y
             0 LAC(W)Y
L57
            16 LACTOSE PERMEASE OR LACY OR LAC(W)Y
FILE 'ESBIOBASE'
          4138 LACTOSE
          1490 PERMEASE
           251 LACTOSE PERMEASE
                 (LACTOSE (W) PERMEASE)
           137 LACY
          2324 LAC
         44478 Y
             2 LAC(W)Y
L58
           336 LACTOSE PERMEASE OR LACY OR LAC(W)Y
FILE 'BIOTECHNO'
          4333 LACTOSE
          1423 PERMEASE
           257 LACTOSE PERMEASE
                 (LACTOSE (W) PERMEASE)
           105 LACY
          2921 LAC
         24405 Y
            15 LAC(W) Y
L59
           317 LACTOSE PERMEASE OR LACY OR LAC(W)Y
FILE 'WPIDS'
         14778 LACTOSE
           114 PERMEASE
             5 LACTOSE PERMEASE
                 (LACTOSE (W) PERMEASE)
            55 LACY
          1348 LAC
```

```
269044 Y
             3 LAC(W)Y
            62 LACTOSE PERMEASE OR LACY OR LAC(W)Y
L60
TOTAL FOR ALL FILES
          5605 LACTOSE PERMEASE OR LACY OR LAC(W) Y
L61
=> s l61(10a) (express? or overexpress? or recombinant?)
FILE 'MEDLINE'
       1154432 EXPRESS?
         84243 OVEREXPRESS?
        292698 RECOMBINANT?
            43 L50(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
L62
FILE 'SCISEARCH'
       1476371 EXPRESS?
         96165 OVEREXPRESS?
        174668 RECOMBINANT?
            38 L51(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
L63
FILE 'LIFESCI'
        472856 EXPRESS?
         38545 OVEREXPRESS?
         79538 RECOMBINANT?
            35 L52(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
L64
FILE 'BIOTECHDS'
        164518 EXPRESS?
          7208 OVEREXPRESS?
        110831 RECOMBINANT?
L65
            21 L53(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
FILE 'BIOSIS'
       1403420 EXPRESS?
         93099 OVEREXPRESS?
        215355 RECOMBINANT?
L66
            63 L54(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
FILE 'EMBASE'
       1062976 EXPRESS?
         84489 OVEREXPRESS?
        195187 RECOMBINANT?
L67
            35 L55(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
FILE 'HCAPLUS'
       1402395 EXPRESS?
         88725 OVEREXPRESS?
        214008 RECOMBINANT?
L68
            70 L56(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
FILE 'NTIS'
         41690 EXPRESS?
          1255 OVEREXPRESS?
          1920 RECOMBINANT?
             O L57(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
L69
FILE 'ESBIOBASE'
        677875 EXPRESS?
         64813 OVEREXPRESS?
         98793 RECOMBINANT?
            28 L58(10A)(EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)
L70
FILE 'BIOTECHNO'
        452182 EXPRESS?
```

37390 OVEREXPRESS?

127206 RECOMBINANT?

L71 31 L59(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'WPIDS'

154568 EXPRESS?

4031 OVEREXPRESS?

53306 RECOMBINANT?

L72 2 L60(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

TOTAL FOR ALL FILES

L73 366 L61(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

=> s 173 not 2001-2008/py

FILE 'MEDLINE'

4221099 2001-2008/PY

(20010000-20089999/PY)

L74 32 L62 NOT 2001-2008/PY

FILE 'SCISEARCH'

7790095 2001-2008/PY

(20010000-20089999/PY)

L75 23 L63 NOT 2001-2008/PY

FILE 'LIFESCI'

895221 2001-2008/PY

L76 24 L64 NOT 2001-2008/PY

FILE 'BIOTECHDS'

174757 2001-2008/PY

L77 14 L65 NOT 2001-2008/PY

FILE 'BIOSIS'

3897957 2001-2008/PY

L78 45 L66 NOT 2001-2008/PY

FILE 'EMBASE'

3713811 2001-2008/PY

L79 24 L67 NOT 2001-2008/PY

FILE 'HCAPLUS'

8090843 2001-2008/PY

L80 49 L68 NOT 2001-2008/PY

FILE 'NTIS'

121734 2001-2008/PY

L81 0 L69 NOT 2001-2008/PY

FILE 'ESBIOBASE'

2196803 2001-2008/PY

L82 15 L70 NOT 2001-2008/PY

FILE 'BIOTECHNO'

368875 2001-2008/PY

L83 25 L71 NOT 2001-2008/PY

FILE 'WPIDS'

6465009 2001-2008/PY

L84 0 L72 NOT 2001-2008/PY

TOTAL FOR ALL FILES

L85 251 L73 NOT 2001-2008/PY

=> dup rem 185

PROCESSING COMPLETED FOR L85

L86 72 DUP REM L85 (179 DUPLICATES REMOVED)

=> s 161(5a)toxic?

FILE 'MEDLINE'

484015 TOXIC?

L87 0 L50 (5A) TOXIC?

FILE 'SCISEARCH'

306201 TOXIC?

L88 0 L51(5A)TOXIC?

FILE 'LIFESCI'

121902 TOXIC?

L89 0 L52 (5A) TOXIC?

FILE 'BIOTECHDS'

13355 TOXIC?

L90 0 L53 (5A) TOXIC?

FILE 'BIOSIS'

1482029 TOXIC?

L91 1 L54 (5A) TOXIC?

FILE 'EMBASE'

567603 TOXIC?

L92 0 L55(5A) TOXIC?

FILE 'HCAPLUS'

556327 TOXIC?

L93 0 L56(5A)TOXIC?

FILE 'NTIS'

51406 TOXIC?

L94 0 L57(5A)TOXIC?

FILE 'ESBIOBASE'

212039 TOXIC?

L95 0 L58(5A)TOXIC?

FILE 'BIOTECHNO'

45087 TOXIC?

L96 0 L59(5A)TOXIC?

FILE 'WPIDS'

109206 TOXIC?

L97 0 L60(5A) TOXIC?

TOTAL FOR ALL FILES

L98 1 L61(5A) TOXIC?

=> log y

COST IN U.S. DOLLARS SINCE FILE ENTRY

FULL ESTIMATED COST ENTRY SESSION 499.64

TOTAL

STN INTERNATIONAL LOGOFF AT 15:04:19 ON 02 JAN 2008